California High-Speed Rail Authority



RFP No.: HSR 13-57

Request for Proposals for Design-Build Services for Construction Package 2-3

Reference Material, Part B.4 PE4P Composite Utility Plans

CALIFORNIA HIGH-SPEED TRAIN

Engineering Drawings

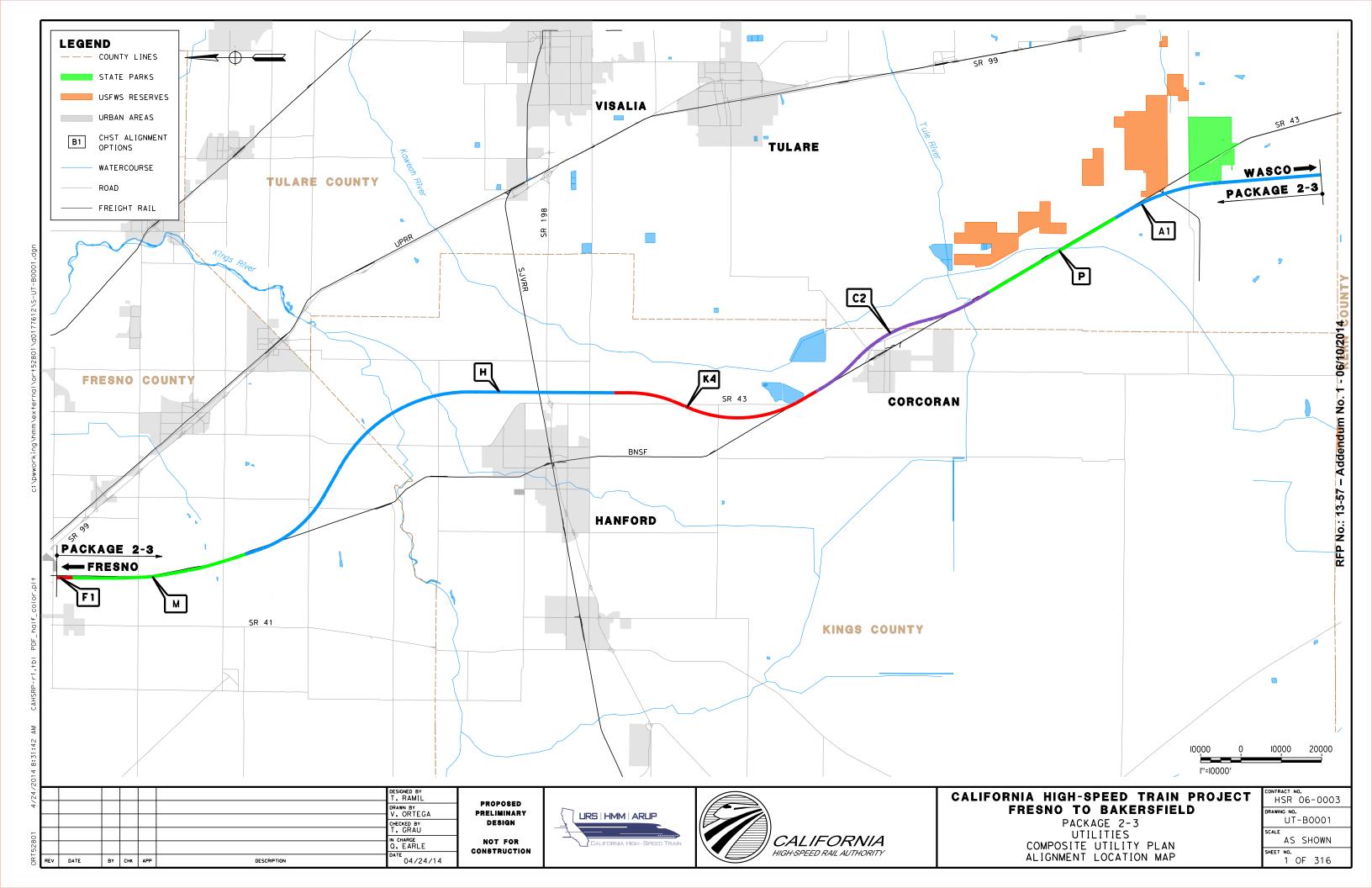


Sierra Subdivision Construction Package 2-3 Composite Utility Plans

April 2014







DRAWING NO

UT-B0001

GE-A0019

GE-A0020

GE A0020	TACKAGE 25 OTHER COMMOSTE OTHER TEAM MODER OF BRAWINGS (SHEET 2 OF 4)	3 01 310
GE-A0021	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - INDEX OF DRAWINGS (SHEET 3 OF 4)	4 OF 316
GE-A0022	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - INDEX OF DRAWINGS (SHEET 4 OF 4)	5 OF 316
UT-B0021	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - GENERAL NOTES	6 OF 316
UT-B0022	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - LEGEND, SYMBOLS & ABBREVATIONS	7 OF 316
UT-B0023	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 1 OF 4)	8 OF 316
UT-B0024	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 2 OF 4)	9 OF 316
UT-B0025	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 3 OF 4)	10 OF 316
UT-B0026	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 4 OF 4)	11 OF 316
UT-C4088	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 587+00 TO STA. 602+00	12 OF 316
UT-C4089	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 602+00 TO STA. 617+00	13 OF 316
UT-C4090	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 617+00 TO STA. 635+00	14 OF 316
UT-C4091	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 635+00 TO STA. 650+50	15 OF 316
UT-C4092	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 650+50 TO STA. 666+00	16 OF 316
UT-C4093	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 666+00 TO STA. 681+50	17 OF 316
UT-C4094	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 681+50 TO STA. 697+00	18 OF 316
UT-C4095	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 697+00 TO STA. 712+50	19 OF 316
JT-C4096	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 712+50 TO STA. 728+00	20 OF 316
JT-C4097	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 728+00 TO STA. 743+50	21 OF 316
JT-C4098	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 743+50 TO STA. 759+00	22 OF 316
JT-C4099	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 759+00 TO STA. 774+50	23 OF 316
JT-C4100	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 774+50 TO STA. 790+00	24 OF 316
JT-C4101	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 790+00 TO STA. 805+50	25 OF 316
JT-C4102	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 805+50 TO STA. 821+00	26 OF 316
JT-C4103	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 821+00 TO STA. 836+50	27 OF 316
JT-C4104	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 836+50 TO STA. 852+00	28 OF 316
JT-C4105	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 852+00 TO STA. 867+50	29 OF 316
JT-C4106	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 867+50 TO STA. 883+00	30 OF 316
JT-C4107	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 883+00 TO STA. 898+50	31 OF 316
JT-C4108	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 898+50 TO STA. 914+00	32 OF 316
JT-C4109	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 914+00 TO STA. 929+50	33 OF 316
JT-C4110	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 929+50 TO STA. 945+00	34 OF 316
JT-C4111	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 945+00 TO STA. 960+50	35 OF 316
JT-C4112	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 960+50 TO STA. 976+00	36 OF 316
JT-C4113	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 976+00 TO STA. 991+50	37 OF 316
JT-C4114	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 991+50 TO STA. 1007+00	38 OF 316
JT-C4115	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1007+00 TO STA. 1022+50	39 OF 316
JT-C4116	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1022+50 TO STA. 1038+00	40 OF 316
JT-C4117	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1038+00 TO STA. 1053+50	41 OF 316
JT-C4118	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1053+50 TO STA. 1069+00	42 OF 316
JT-C4119	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1069+00 TO STA. 1084+50	43 OF 316
UT-C4113 UT-C4120	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1084+50 TO STA. 1100+00	44 OF 316
JT-C4121	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1100+00 TO STA. 1115+50	45 OF 316
UT-C4121 UT-C4122	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1115+50 TO STA. 1131+00	46 OF 316
JT-C4122 JT-C4123	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1131+00 TO STA. 1146+50	47 OF 316
JT-C4123 JT-C4124	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1151+00 TO STA. 1162+00	48 OF 316
	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1140+50 TO STA. 1177+50	48 OF 316 49 OF 316
UT-C4125	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1162+00 TO STA. 1177+50 PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1177+50 TO STA. 1193+00	50 OF 316
UT-C4126		1 7U UF 31D

DRAWING DESCRIPTION

PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - ALIGNMENT LOCATION MAP

PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - INDEX OF DRAWINGS (SHEET 1 OF 4)

PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - INDEX OF DRAWINGS (SHEET 2 OF 4)

DRAWINGS - CONT.

DRAWING NO	DRAWING DESCRIPTION	SHEET NO
UT-C4127	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1193+00 TO STA. 1208+50	51 OF 316
UT-C4128	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1208+50 TO STA. 1224+00	52 OF 316
UT-C4129	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1224+00 TO STA. 1239+50	53 OF 316
UT-C4130	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1239+50 TO STA. 1255+00	54 OF 316
UT-C4131	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1255+00 TO STA. 1270+50	55 OF 316
UT-C4132	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1270+50 TO STA. 1286+00	56 OF 316
UT-C4133	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1286+00 TO STA. 1301+50	57 OF 316
UT-C4134	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1301+50 TO STA. 1317+00	58 OF 316
UT-C4135	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1317+00 TO STA. 1332+50	59 OF 316
UT-C4136	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1332+50 TO STA. 1348+00	60 OF 316
UT-C4137	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1348+00 TO STA. 1363+50	61 OF 316
UT-C4138	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1363+50 TO STA. 1379+00	62 OF 316
UT-C4139	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1379+00 TO STA. 1394+50	63 OF 316
UT-C4140	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1394+50 TO STA. 1410+00	64 OF 316
UT-C4140	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1410+00 TO STA. 1425+50	65 OF 316
UT-C4141 UT-C4142	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1425+50 TO STA. 1441+00	66 OF 316
UT-C4142 UT-C4143	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1423+30 TO STA. 1456+50	
		67 OF 316
UT-C4144 UT-C4145	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1456+50 TO STA. 1472+00	68 OF 316
	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1472+00 TO STA. 1487+50	69 OF 316
UT-C4146	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1487+50 TO STA. 1503+00	70 OF 316
UT-C4147	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1503+00 TO STA. 1518+50	71 OF 316
UT-C4148	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1518+50 TO STA. 1534+00	72 OF 316
UT-C4149	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1534+00 TO STA. 1549+50	73 OF 316
UT-C4150	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1549+50 TO STA. 1565+00	74 OF 316
UT-C4151	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1565+00 TO STA. 1580+50	75 OF 316
UT-C4152	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1580+50 TO STA. 1596+00	76 OF 316
UT-C4153	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1596+00 TO STA. 1611+50	77 OF 316
UT-C4154	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1611+50 TO STA. 1627+00	78 OF 316
UT-C4155	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1627+00 TO STA. 1642+50	79 OF 316
UT-C4156	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1642+50 TO STA. 1658+00	80 OF 316
UT-C4157	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1658+00 TO STA. 1673+50	81 OF 316
UT-C4158	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1673+50 TO STA. 1689+00	82 OF 316
UT-C4159	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1689+00 TO STA. 1704+50	83 OF 316
UT-C4160	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1704+50 TO STA. 1720+00	84 OF 316
UT-C4161	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1720+00 TO STA. 1735+50	85 OF 316
UT-C4162	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1735+50 TO STA. 1751+00	86 OF 316
UT-C4163	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1751+00 TO STA. 1766+50	87 OF 316
UT-C4164	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1766+50 TO STA. 1782+00	88 OF 316
UT-C4165	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1782+00 TO STA. 1797+50	89 OF 316
UT-C4166	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1797+50 TO STA. 1813+00	90 OF 316
UT-C4167	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1813+00 TO STA. 1828+50	91 OF 316
UT-C4168	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1828+50 TO STA. 1844+00	92 OF 316
UT-C4169	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1844+00 TO STA. 1859+50	93 OF 316
UT-C4170	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1859+50 TO STA. 1875+00	94 OF 316
UT-C4171	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1875+00 TO STA. 1890+50	95 OF 316
UT-C4172	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1890+50 TO STA. 1906+00	96 OF 316
UT-C4173	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1906+00 TO STA. 1921+50	97 OF 316
UT-C4174	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1921+50 TO STA. 1937+00	98 OF 316
UT-C4175	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1937+00 TO STA. 1952+50	99 OF 316
UT-C4176	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1952+50 TO STA. 1968+00	100 OF 316

						DESIGNED BY T. RAMIL	Ī
						DRAWN BY	
						CHECKED BY	l
						T. GRAU IN CHARGE	l
						Q. EARLE	l
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	04/24/14	

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION



SHEET NO

1 OF 316

2 OF 316

3 OF 316



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN INDEX OF DRAWINGS (SHEET 1 OF 4)

HSR 06-0003 GE-A0019 NO SCALE 2 OF 316

DIAWINGING	DIAWING DESCRIPTION	JIILLI NO
UT-C4177	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1968+00 TO STA. 1983+50	101 OF 316
UT-C4178	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1983+50 TO STA. 1999+00	102 OF 316
UT-C4179	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 1999+00 TO STA. 2014+50	103 OF 316
UT-C4180	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2014+50 TO STA. 2030+00	104 OF 316
UT-C4181	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2030+00 TO STA. 2045+50	105 OF 316
UT-C4182	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2045+50 TO STA. 2061+00	106 OF 316
UT-C4183	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2061+00 TO STA. 2076+50	107 OF 316
UT-C4184	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2076+50 TO STA. 2092+00	108 OF 316
UT-C4185	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2092+00 TO STA. 2107+50	109 OF 316
UT-C4186	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2107+50 TO STA. 2123+00	110 OF 316
UT-C4187	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2123+00 TO STA. 2138+50	111 OF 316
UT-C4188	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2138+50 TO STA. 2084+00	112 OF 316
UT-C4189	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2084+00 TO STA. 2099+50	113 OF 316
UT-C4190	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2099+50 TO STA. 2115+00	114 OF 316
UT-C4191	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2115+00 TO STA. 2130+50	115 OF 316
UT-C4192	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2130+50 TO STA. 2146+00	116 OF 316
UT-C4193	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2146+00 TO STA. 2161+50	117 OF 316
UT-C4194	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2161+50 TO STA. 2177+00	118 OF 316
UT-C4195	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2177+00 TO STA. 2192+50	119 OF 316
UT-C4196	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2192+50 TO STA. 2208+00	120 OF 316
UT-C4197	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2208+00 TO STA. 2223+50	121 OF 316
UT-C4198	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2223+50 TO STA. 2239+00	122 OF 316
UT-C4199	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2239+00 TO STA. 2254+50	123 OF 316
UT-C4200	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2254+50 TO STA. 2270+00	124 OF 316
UT-C4201	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2270+00 TO STA. 2285+00	125 OF 316
UT-C4202	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2285+00 TO STA. 2301+00	126 OF 316
UT-C4203	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2301+00 TO STA. 2316+50	127 OF 316
UT-C4204	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2316+50 TO STA. 2332+00	128 OF 316
UT-C4205	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2332+00 TO STA. 2347+50	129 OF 316
UT-C4206	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2347+50 TO STA. 2363+00	130 OF 316
UT-C4207	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2363+00 TO STA. 2378+50	131 OF 316
UT-C4208	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2378+50 TO STA. 2394+00	132 OF 316
UT-C4209	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2394+00 TO STA. 2409+50	133 OF 316
UT-C4210	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2409+50 TO STA. 2425+00	134 OF 316
UT-C4211	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2425+00 TO STA. 2440+50	135 OF 316
UT-C4212	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2440+50 TO STA. 2456+00	136 OF 316
UT-C4213	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2456+00 TO STA. 2471+50	137 OF 316
UT-C4214	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2471+50 TO STA. 2487+00	138 OF 316
UT-C4215	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2487+00 TO STA. 2502+50	139 OF 316
UT-C4216	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2502+50 TO STA. 2518+00	140 OF 316
UT-C4217	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2518+00 TO STA. 2533+50	141 OF 316
UT-C4218	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2533+50 TO STA. 2549+00	142 OF 316
UT-C4219	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2549+00 TO STA. 2564+50	143 OF 316
UT-C4220	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2564+50 TO STA. 2580+00	144 OF 316
UT-C4221	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2580+00 TO STA. 2595+50	145 OF 316
UT-C4222	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2595+50 TO STA. 2607+00	146 OF 316
UT-C4223	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2607+00 TO STA. 2622+50	147 OF 316
UT-C4224	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2622+50 TO STA. 2638+00	148 OF 316
UT-C4225	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2638+00 TO STA. 2653+50	149 OF 316
1		1

PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2653+50 TO STA. 2669+00

DRAWING DESCRIPTION

DRAWING NO	DRAWING DESCRIPTION	SHEET NO
UT-C4227	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2669+00 TO STA. 2684+50	151 OF 316
UT-C4228	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2684+50 TO STA. 2700+00	152 OF 316
UT-C4229	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2700+00 TO STA. 2715+50	153 OF 316
UT-C4230	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2715+50 TO STA. 2731+00	154 OF 316
UT-C4231	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2731+00 TO STA. 2746+50	155 OF 316
UT-C4232	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2746+50 TO STA. 2762+00	156 OF 316
UT-C4233	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2762+00 TO STA. 2777+50	157 OF 316
UT-C4234	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2777+50 TO STA. 2793+00	158 OF 316
UT-C4235	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2793+00 TO STA. 2808+50	159 OF 316
UT-C4236	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2808+50 TO STA. 2824+00	160 OF 316
UT-C4237	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2824+00 TO STA. 2839+50	161 OF 316
UT-C4238	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2839+50 TO STA. 2855+00	162 OF 316
UT-C4239	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2855+00 TO STA. 2870+50	163 OF 316
UT-C4240	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2870+50 TO STA. 2886+00	164 OF 316
UT-C4241	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2886+00 TO STA. 2901+50	165 OF 316
UT-C4242	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2901+50 TO STA. 2917+00	166 OF 316
UT-C4243	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2917+00 TO STA. 2932+50	167 OF 316
UT-C4244	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2932+50 TO STA. 2948+00	168 OF 316
UT-C4245	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2948+00 TO STA. 2963+50	169 OF 316
UT-C4246	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2963+50 TO STA. 2979+00	170 OF 316
UT-C4247	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2979+00 TO STA. 2994+50	171 OF 316
UT-C4248	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 2994+50 TO STA. 3010+00	172 OF 316
UT-C4249	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3010+00 TO STA. 3025+50	173 OF 316
UT-C4250	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3025+50 TO STA. 3041+00	174 OF 316
UT-C4251	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3041+00 TO STA. 3056+50	175 OF 316
UT-C4252	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3056+50 TO STA. 3072+00	176 OF 316
UT-C4253	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3072+00 TO STA. 3087+50	177 OF 316
UT-C4254	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3087+50 TO STA. 3103+00	178 OF 316
UT-C4255	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3103+00 TO STA. 3118+50	179 OF 316
UT-C4256	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3118+50 TO STA. 3134+00	180 OF 316
UT-C4257	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3134+00 TO STA. 3149+50	181 OF 316
UT-C4258	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3134740 TO STA. 3165+00	182 OF 316
UT-C4259	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 31451-30 TO STA. 3180+50	183 OF 316
UT-C4260	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3180+50 TO STA. 3196+00	184 OF 316
UT-C4261	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3196+00 TO STA. 3111+50	185 OF 316
UT-C4262	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3211+50 TO STA. 3227+00	186 OF 316
UT-C4263	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3227+00 TO STA. 3242+50	187 OF 316
	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3227+00 TO STA. 3258+00	188 OF 316
UT-C4264 UT-C4265	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3242+50 TO STA. 3258+00 PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3258+00 TO STA. 3273+50	189 OF 316
	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3238+00 TO STA. 3273+50 PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3273+50 TO STA. 3289+00	190 OF 316
UT-C4266 UT-C4267	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 32/3+50 TO STA. 3289+00 PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3289+00 TO STA. 3304+50	190 OF 316
		191 OF 316
UT-C4268	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3304+50 TO STA. 3320+00	192 OF 310
UT-C4269	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3320+00 TO STA. 3335+50	193 OF 316
UT-C4270	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3335+50 TO STA. 3351+00	194 OF 316
UT-C4271	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3351+00 TO STA. 3366+50	195 OF 316
UT-C4272	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3366+50 TO STA. 3382+00	
UT-C4273	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3382+00 TO STA. 3397+50	197 OF 316
UT-C4274	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3397+50 TO STA. 3413+00	198 OF 316
UT-C4275	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3413+00 TO STA. 3428+50	199 OF 316
UT-C4276	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3428+50 TO STA. 3444+00	200 OF 316

						DESIGNED BY T. RAMIL
						DRAWN BY V. ORTEGA
						CHECKED BY
						IN CHARGE Q. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	04/24/14

UT-C4226

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION



150 OF 316

SHEET NO



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN INDEX OF DRAWINGS (SHEET 2 OF 4) HSR 06-0003 GE-A0020 NO SCALE

3 OF 316

DRAWING NO

J		0220
UT-C4277	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3444+00 TO STA. 3919+75	201 OF 316
UT-C4278	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3919+75 TO STA. 3935+00	202 OF 316
UT-C4279	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3935+00 TO STA. 3950+50	203 OF 316
UT-C4280	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3950+50 TO STA. 3966+00	204 OF 316
UT-C4281	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3966+00 TO STA. 3981+50	205 OF 316
UT-C4282	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3981+50 TO STA. 3997+00	206 OF 316
UT-C4283	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 3997+00 TO STA. 4012+50	207 OF 316
UT-C4284	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4012+50 TO STA. 4028+00	208 OF 316
UT-C4285	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4028+00 TO STA. 4043+50	209 OF 316
UT-C4286	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4043+50 TO STA. 4059+00	210 OF 316
UT-C4287	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4059+00 TO STA. 4074+50	211 OF 316
UT-C4288	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4074+50 TO STA. 4090+00	212 OF 316
UT-C4289	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4090+00 TO STA. 4105+50	213 OF 316
UT-C4290	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4105+50 TO STA. 4121+00	214 OF 316
UT-C4291	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4121+00 TO STA. 4136+50	215 OF 316
UT-C4292	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4136+50 TO STA. 4152+00	216 OF 316
UT-C4293	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4152+00 TO STA. 4167+50	217 OF 316
UT-C4294	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4167+50 TO STA. 4183+00	218 OF 316
UT-C4295	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4183+00 TO STA. 4198+50	219 OF 316
UT-C4296	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4198+50 TO STA. 4214+00	220 OF 316
UT-C4297	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4214+00 TO STA. 4229+50	221 OF 316
UT-C4298	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4229+50 TO STA. 4245+00	222 OF 316
UT-C4299	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4245+00 TO STA. 4260+50	223 OF 316
UT-C4300	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4260+50 TO STA. 4276+00	224 OF 316
UT-C4301	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4276+00 TO STA. 4291+50	225 OF 316
UT-C4302	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4291+50 TO STA. 4307+00	226 OF 316
UT-C4303	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4307+00 TO STA. 4322+50	227 OF 316
UT-C4304	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4322+50 TO STA. 4338+00	228 OF 316
UT-C4305	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4338+00 TO STA. 4353+50	229 OF 316
UT-C4306	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4353+50 TO STA. 4369+00	230 OF 316
UT-C4307	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4369+00 TO STA. 4384+50	231 OF 316
UT-C4308	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4384+50 TO STA. 4400+00	232 OF 316
UT-C4309	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4400+00 TO STA. 4415+50	233 OF 316
UT-C4310	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4415+50 TO STA. 4431+00	234 OF 316
UT-C4311	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - STA. 4431+00 TO STA. 4446+50	235 OF 316
UT-C4400	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST LINCOLN AVENUE	236 OF 316
UT-C4401	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST LINCOLN AVENUE	237 OF 316
UT-C4402	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST ADAMS AVENUE	238 OF 316
UT-C4403	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST ADAMS AVENUE	239 OF 316
UT-C4404	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST SOUTH AVENUE	240 OF 316
UT-C4405	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST SOUTH AVENUE	241 OF 316
UT-C4406	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MANNING AVENUE	242 OF 316
UT-C4407	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MANNING AVENUE	243 OF 316
UT-C4408	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST FLORAL AVENUE	244 OF 316
UT-C4409	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST FLORAL AVENUE	245 OF 316
UT-C4410	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST NEBRASKA AVENUE	246 OF 316
UT-C4411	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST NEBRASKA AVENUE	247 OF 316
UT-C4412	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST NEBRASKA AVENUE	248 OF 316
UT-C4413	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST NEBRASKA AVENUE	249 OF 316
UT-C4414	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MOUNTAIN VIEW AVENUE	250 OF 316

DRAWING DESCRIPTION

DRAWING NO	DRAWING DESCRIPTION	SHEET NO
UT-C4415	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MOUNTAIN VIEW AVENUE	251 OF 316
UT-C4416	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MOUNTAIN VIEW AVENUE	252 OF 316
UT-C4417	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MOUNTAIN VIEW AVENUE	253 OF 316
UT-C4418	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST MOUNTAIN VIEW AVENUE	254 OF 316
UT-C4419	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SOUTH CLOVIS AVENUE	255 OF 316
UT-C4420	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SOUTH CLOVIS AVENUE	256 OF 316
UT-C4421	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST ELKHORN AVENUE	257 OF 316
UT-C4422	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST ELKHORN AVENUE	258 OF 316
UT-C4423	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SOUTH FOWLER AVENUE	259 OF 316
UT-C4424	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SOUTH FOWLER AVENUE	260 OF 316
UT-C4425	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST DAVIS STREET	261 OF 316
UT-C4426	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EAST DAVIS STREET	262 OF 316
UT-C4427	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - DOVER AVENUE	263 OF 316
UT-C4428	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - DOVER AVENUE	264 OF 316
UT-C4429	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - DOVER AVENUE	265 OF 316
UT-C4430	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EXCELSIOR AVENUE	266 OF 316
UT-C4431	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - EXCELSIOR AVENUE	267 OF 316
UT-C4432	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - ELDER AVENUE	268 OF 316
UT-C4433	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - ELDER AVENUE	269 OF 316
UT-C4434	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FLINT AVENUE	270 OF 316
UT-C4435	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FLINT AVENUE	271 OF 316
UT-C4436	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FLINT AVENUE	272 OF 316
UT-C4437	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FLINT AVENUE	273 OF 316
UT-C4438	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FARGO AVENUE	274 OF 316
UT-C4439	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - FARGO AVENUE	275 OF 316
UT-C4440	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HANFORD ARMONA ROAD	276 OF 316
UT-C4441	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HANFORD ARMONA ROAD	277 OF 316
UT-C4442	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HOUSTON AVENUE	278 OF 316
UT-C4443	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HOUSTON AVENUE	279 OF 316
UT-C4444	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - IONA AVENUE	280 OF 316
UT-C4445	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - IONA AVENUE	281 OF 316
UT-C4446	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - IDAHO AVENUE	282 OF 316
UT-C4446	+	
UT-C4447	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - IDAHO AVENUE PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - JACKSON AVENUE	283 OF 316 284 OF 316
	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - JACKSON AVENUE	285 OF 316
UT-C4449	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - JACKSON AVENUE PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - JERSEY AVENUE	
UT-C4450		286 OF 316
UT-C4451	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SR43	287 OF 316
UT-C4452	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KENT AVENUE	288 OF 316
UT-C4453	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KENT AVENUE	289 OF 316
UT-C4454	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KANSAS AVENUE	290 OF 316
UT-C4455	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - KANSAS AVENUE	291 OF 316
UT-C4456	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - NEVADA AVENUE	292 OF 316
UT-C4457	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - NEVADA AVENUE	293 OF 316
UT-C4458	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - CORCORAN HIGHWAY	294 OF 316
UT-C4459	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - CORCORAN HIGHWAY	295 OF 316
UT-C4460	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - CORCORAN HIGHWAY	296 OF 316
UT-C4461	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SR137	297 OF 316
UT-C4462	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - SR137	298 OF 316
UT-C4463	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 128	299 OF 316
UT-C4464	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 128	300 OF 316

						DESIGNED BY T. RAMIL
						DRAWN BY V. ORTEGA
						CHECKED BY
						IN CHARGE Q. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	04/24/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION



SHEET NO



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3
UTILITIES
COMPOSITE UTILITY PLAN
INDEX OF DRAWINGS (SHEET 3 OF 4)

CONTRACT NO.
HSR 06-0003

DRAWING NO.
GE-A0021

SCALE
NO SCALE

ORT52801 4/23/2014

AKERSFIELD

2-3

IES

NO SCALE

NO SCALE

SHEET NO. 4 OF 316

DRAWING NO	DRAWING DESCRIPTION	SHEET NO
UT-C4465	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HESSE AVENUE	301 OF 316
UT-C4466	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HESSE AVENUE	302 OF 316
UT-C4467	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 112	303 OF 316
UT-C4468	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 112	304 OF 316
UT-C4469	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - LAKELAND CANAL	305 OF 316
UT-C4470	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - ALPAUGH SUBSTATION	306 OF 316
UT-C4471	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 88	307 OF 316
UT-C4472	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - AVENUE 88	308 OF 316
UT-C4473	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - ACCESS ROAD	309 OF 316
UT-C4474	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - COUNTY ROAD J22	310 OF 316
UT-C4475	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - COUNTY ROAD J22	311 OF 316
UT-Y4500	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 1 OF 5)	312 OF 316
UT-Y4501	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 2 OF 5)	313 OF 316
UT-Y4502	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 3 OF 5)	314 OF 316
UT-Y4503	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 4 OF 5)	315 OF 316
UT-Y4504	PACKAGE 2-3 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 5 OF 5)	316 OF 316

DESIGNED BY DRAWN BY V. ORTEGA CHECKED BY IN CHARGE Q. EARLE O4/24/14 BY CHK APP DESCRIPTION

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN INDEX OF DRAWINGS (SHEET 4 OF 4)

_	CONTRACT NO.
•	HSR 06-0003
	DRAWING NO.
	GE-A0022
	SCALE
	NO SCALE

RFP No.: 13-57 - Addendum No. 1 - 06/10/2014

SHEET NO. 5 OF 316

1.) TOPOGRAPHIC SURVEY

- 2.) G.I.S.
- 3.) AS-BUILT DRAWINGS 4.) LIMITED FIELD RECONNAISSANCE

THE CONTRACTOR SHALL CONDUCT ITS OWN SURVEY AND VERIFY THE LOCATION OF EXISTING UTILITIES AND RECONCILE THE SURVEY DATA AND

- 2. SERVICE LATERALS FOR POTABLE WATER, SANITARY SEWER & NATURAL GAS ARE NOT SHOWN.
- 3. PORTIONS OF THE FORMER OLD VALLEY PIPELINE (OVP) AND TIDEWATER ASSOCIATED OIL COMPANY PIPELINES (TAOC) (APPROXIMATE STATIONS 2975+00 TO 4010+00) HAVE CEASED OPERATION AND THE PIPELINES WERE TAKEN OUT OF COMMISSION. THE DEGREE AND METHOD OF DECOMMISSION VARIED; IN SOME INSTANCES THE PIPELINES WERE REMOVED, WHILE IN OTHERS THEY REMAIN IN PLACE, IT SHOULD BE NOTED THAT THE OVP AND TAOC PIPELINES ARE NOT INCLUDED IN THE UNDERGROUND SERVICE ALERT-NORTH (USA-NORTH) SYSTEM SINCE THEY ARE NOT ACTIVE PIPELINES. THE PIPELINES WERE REPORTED TO BE OF STEEL CONSTRUCTION, TYPICALLY ENCASED IN A COAL TAR AND ASBESTOS CONTAINING FÉLT MATERIAL, HISTORIC RELEASES FROM THE PIPELINES HAVE BEEN OBSERVED IN PAST EXCAVATIONS.

						DESIGNED BY T. RAMIL
						DRAWN BY V. ORTEGA
						CHECKED BY T. GRAU
						O. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 04/24/14

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN GENERAL NOTES

CONTRACT NO.					
HSR 06-0003					
DRAWING NO.					
UT-B0021					
SCALE					
NO SCALE					

- Addendum No. 1 - 06/10/2014

SHEET NO. 6 OF 316 NEW

—— - E ——— -(OH)—

— - - - TV — — — - - - (OH)-

 \odot

 \odot

+0+

X

—-- TC-

DESCRIPTION

NATURAL GAS LINE

IRRIGATION LINE

STORM DRAIN LINE

OIL LINE

SEWER LINE

WATER LINE

FIBER OPTIC LINE

STORM DRAIN MANHOLE

PERMANENT EASEMENT
HST TRACK CENTER LINE

UTILITY TO BE REMOVED

LIMIT OF EMBANKMENT

ROADWAY ABANDONMENT

METAL BEAM GUARDRAIL

GRADE CROSSING REMOVAL

STRUCTURE FOUNDATION

SEWER MANHOLE

UTILITY POLE

FIRE HYDRANT

STREET LIGHT

NORTH ARROW RIGHT-OF-WAY

OR RELOCATED
LIMIT OF DITCH

RETAINING WALL

PIPE ENCASEMENT

ELECTRICAL OVERHEAD LINE

ELECTRICAL UNDERGROUND LINE

TELECOMMUNICATION OVERHEAD LINE

TELEVISION OVERHEAD LINE

TELEVISION UNDERGROUND LINE

TEMPORARY CONSTRUCTION EASEMENT

TELECOMMUNICATION UNDERGROUND LINE

EXISTING

-----------------------(oh)--

---(oh)---

— - - - tv — — - - - (oh)—

 \odot

 \odot

+O+

AGGREGATE BASE

AΒ

20							
/22/							DESIGNED BY
4							DRAWN BY
2							CHECKED BY
RAM50525							IN CHARGE Q. EARLE
RAM	REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 04/24/14

1655+00

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION





GUTTER

GAS VALVE

GTR

G۷

AB	AGGREGATE BASE	HOR	HORIZONTAL
ABN	ABANDON		
AC	ASPHALT CONCRETE	IN	INCH
ACB	ASPHALT CONCRETE BASE	INV	INVERT
ACP	ASBESTOS CEMENT PIPE	IRR	IRRIGATION
A/G	AT GRADE		
APPROX	APPROXIMATE	L	LENGTH
AVE	AVENUE	LED	LIGHT EMITTING DIODE
		LG	LIP OF GUTTER
B 0 B	DEATH AUDIE DETURN		
BCR	BEGIN CURVE RETURN	LS	LANDSCAPE
BEG	BEGIN	LT	LEFT
BLDG	BUILDING		
BLVD	BOULEVARD	MIN	MINIMUM
B.O.	BLOW-OFF		
			NORTH NORTHING NEW
BOC	BACK OF CURB	N	NORTH, NORTHING, NEW
BSW	BACK OF SIDEWALK	NA	NOT APPLICABLE, NOT KNOWN
BVCE	BEGIN VERTICAL CURVE ELEVATION	NIC, N.I.C.	NOT IN CONTRACT
BVCS	BEGIN VERTICAL CURVE STATION	NO	NUMBER
D103	BEOIN VENTIONE CONVE STATION	N.T.S.	NOT TO SCALE
CD	CATCH DACIN	N. I. 3.	NOT TO SCALE
СВ	CATCH BASIN		
CD	CURB DRAIN	(P)	PROPOSED
C&G	CURB AND GUTTER	PCC	PORTLAND CEMENT CONCRETE
CH	CURB HEIGHT	PRKG	PARKING
CIP	CAST IRON PIPE	PVC	
			POLYVINYL CHLORIDE
CL	CENTERLINE	PVMT	PAVEMENT
CLSM	CONTROLLED LOW STRENGTH MATERIAL		
CMP	CORRUGATED METAL PIPE	R	RADIUS
COF	CITY OF FRESNO	RCP	REINFORCED CONCRETE PIPE
CTV	CABLE TELEVISION		
CV	CURVE	REQ'D	REQUIRED
CV	CONVE	R/R	REMOVE AND REPLACE/RELOCATE
D	DEPTH	RT	RIGHT
		R/W, ROW	RIGHT OF WAY
DI	DRAINAGE INLET	•	
DIA	DIAMETER	S	SLOPE, SOUTH, SEWER
DIP	DUCTILE IRON PIPE		
DWG	DRAWING	SD	STORM DRAIN
		SDI	STORM DRAIN INLET
Ε	ELECTRICAL, ELECTRIC	SDMH	STORM DRAIN MANHOLE
E	EAST, EXISTING	SF	SQUARE FEET
EC	END HORIZONTAL CURVE	SHLD	SHOULDER
EDG	EDGE	SR	STATE ROUTE
EL OR ELEV	ELEVATION	SS	SANITARY SEWER
ELEC	ELECTRICAL, ELECTRIC	SSMH	SANITARY SEWER MANHOLE
ELEC OH	ELECTRICAL OVERHEAD	ST	STREET
ELL	ELBOW	STA	STATION
EP, EOP	EDGE OF PAVEMENT	SW	SIDEWALK
ETW	EDGE OF TRAVEL WAY		
EVCE	END OF VERTICAL CURVE ELEVATION	T	TELEPHONE, TOTAL
EVCS	END OF VERTICAL CURVE STATION	TC	TELECOMMUNICATION
EXIST, EX, (E)		TCE	TEMPORARY CONSTRUCTION EASEMENT
E \ 131, E \ , (E)	EXISTING		
		TEL	TELEPHONE
FDAC	FULL DEPTH ASPHALT CONCRETE	TOC	TOP OF CURB
FH	FIRE HYDRANT	TS	TRAFFIC SIGNAL
FID	FRESNO IRRIGATION DISTRICT	TYP	TYPICAL
FM	FORCE MAIN		
	FRESNO METROPOLITAN FLOOD	110 1170	LINDEDCDOLIND
FMFCD	CONTROL DISTRICT	UG, U/G	UNDERGROUND
		USFWS	U.S. FISH AND WILDLIFE SERVICE
F.O.	FIBER OPTIC		
FOC	FACE OF CURB	VAR	VARIES
FUT	FUTURE	VC	VERTICAL CURVE
	- -	VCP	VITRIFIED CLAY PIPE
G	GAS	• 0.	
		184	WATED WEST
GALV	GALVANIZED	W	WATER, WEST
GB	GRADE BREAK	W/	WITH
GIS	GEOGRAPHICAL INFORMATION SYSTEM	WM	WATER MAIN
GND	GROUND	W∨	WATER VALVE
GTR	GUITER		= · · · · · = · =

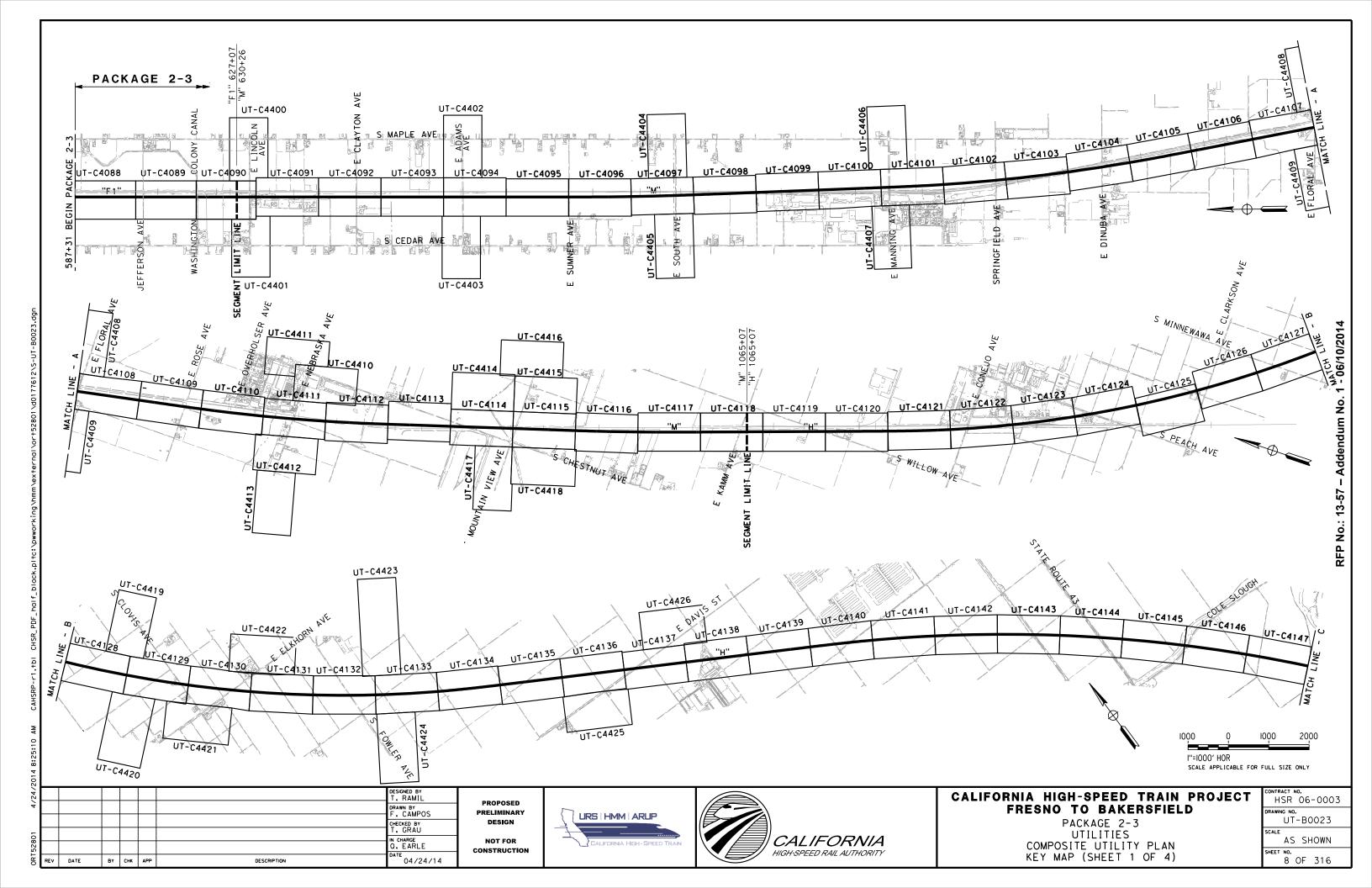
HOR

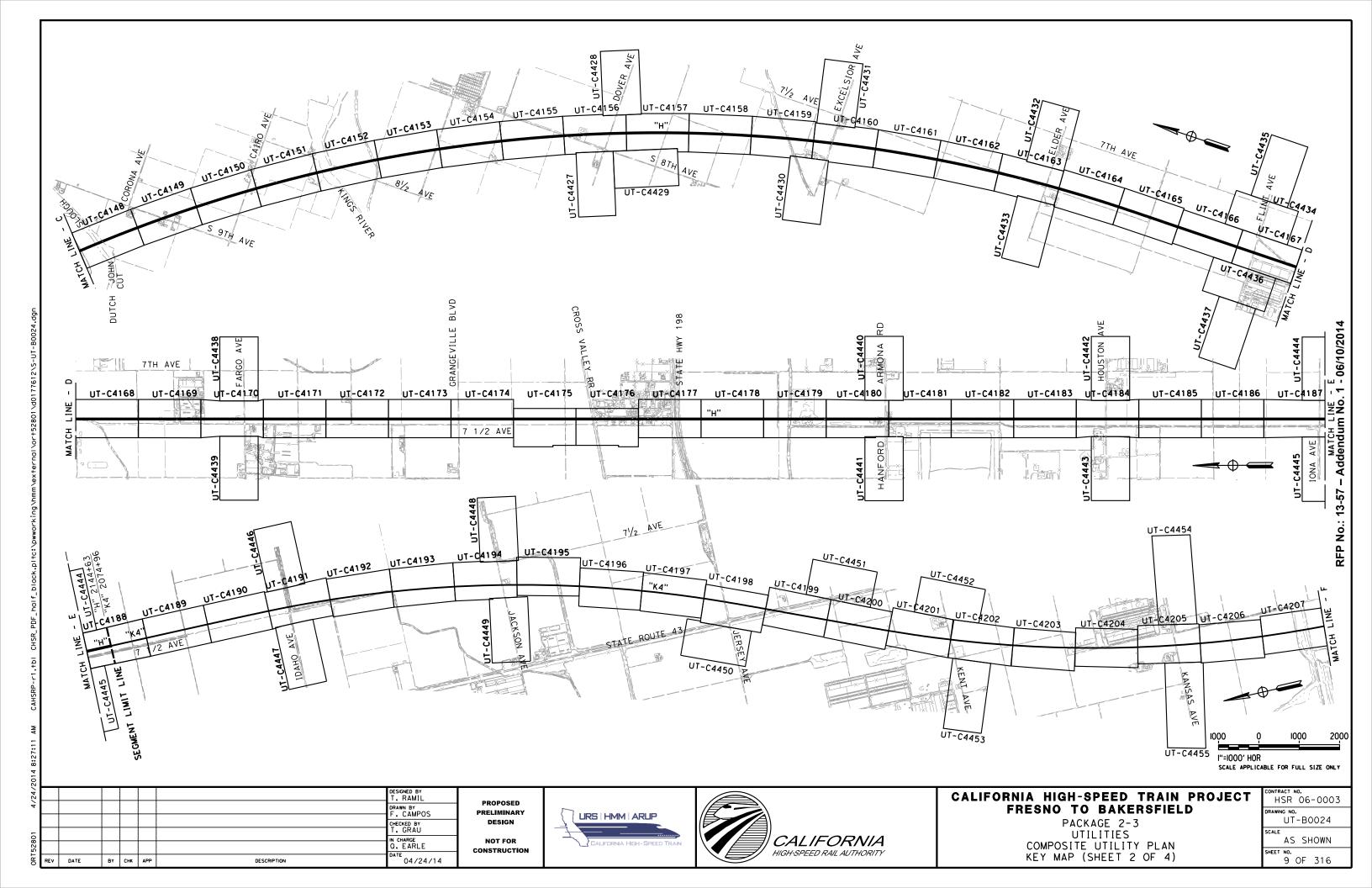
HORIZONTAL

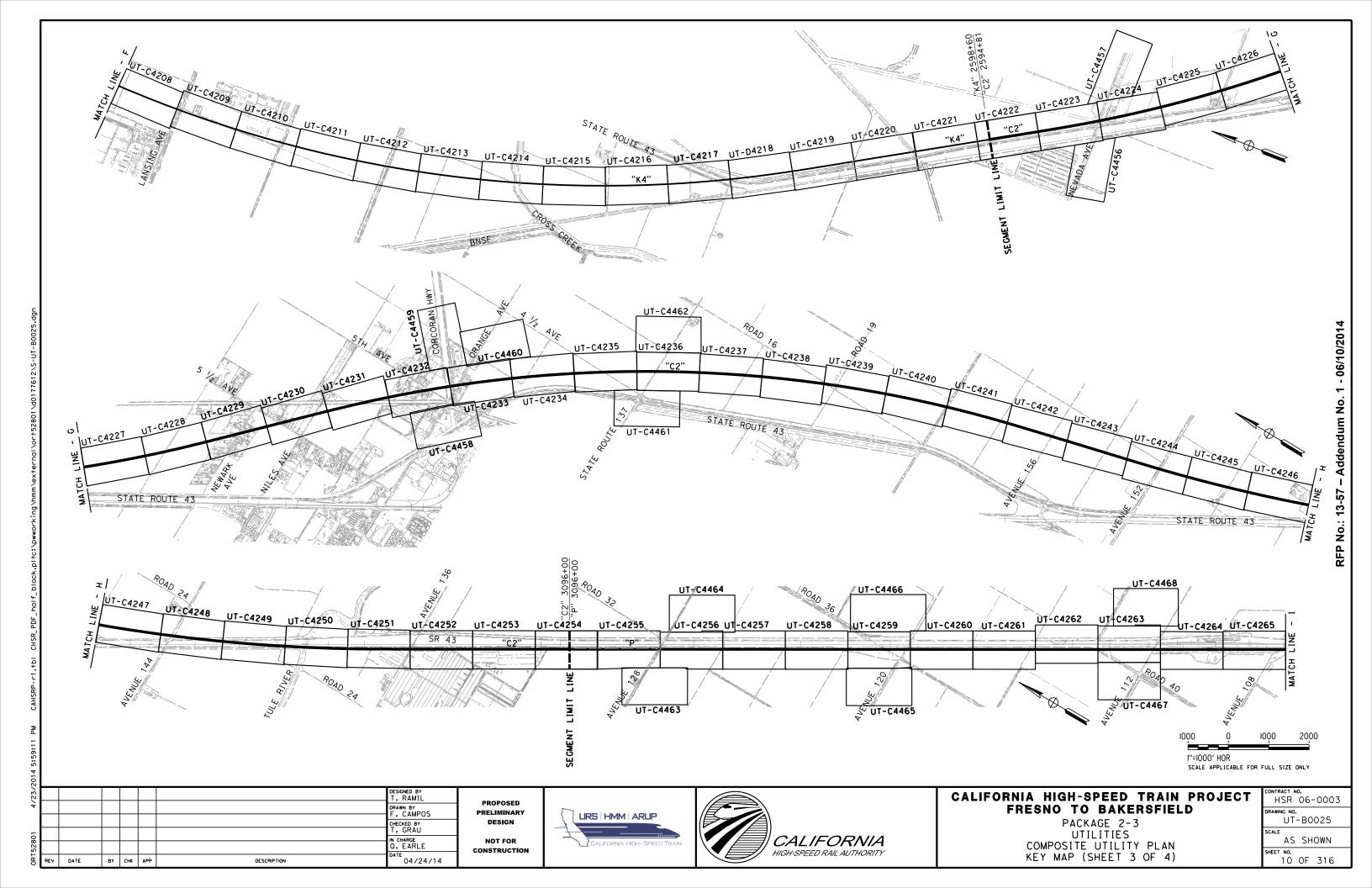
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

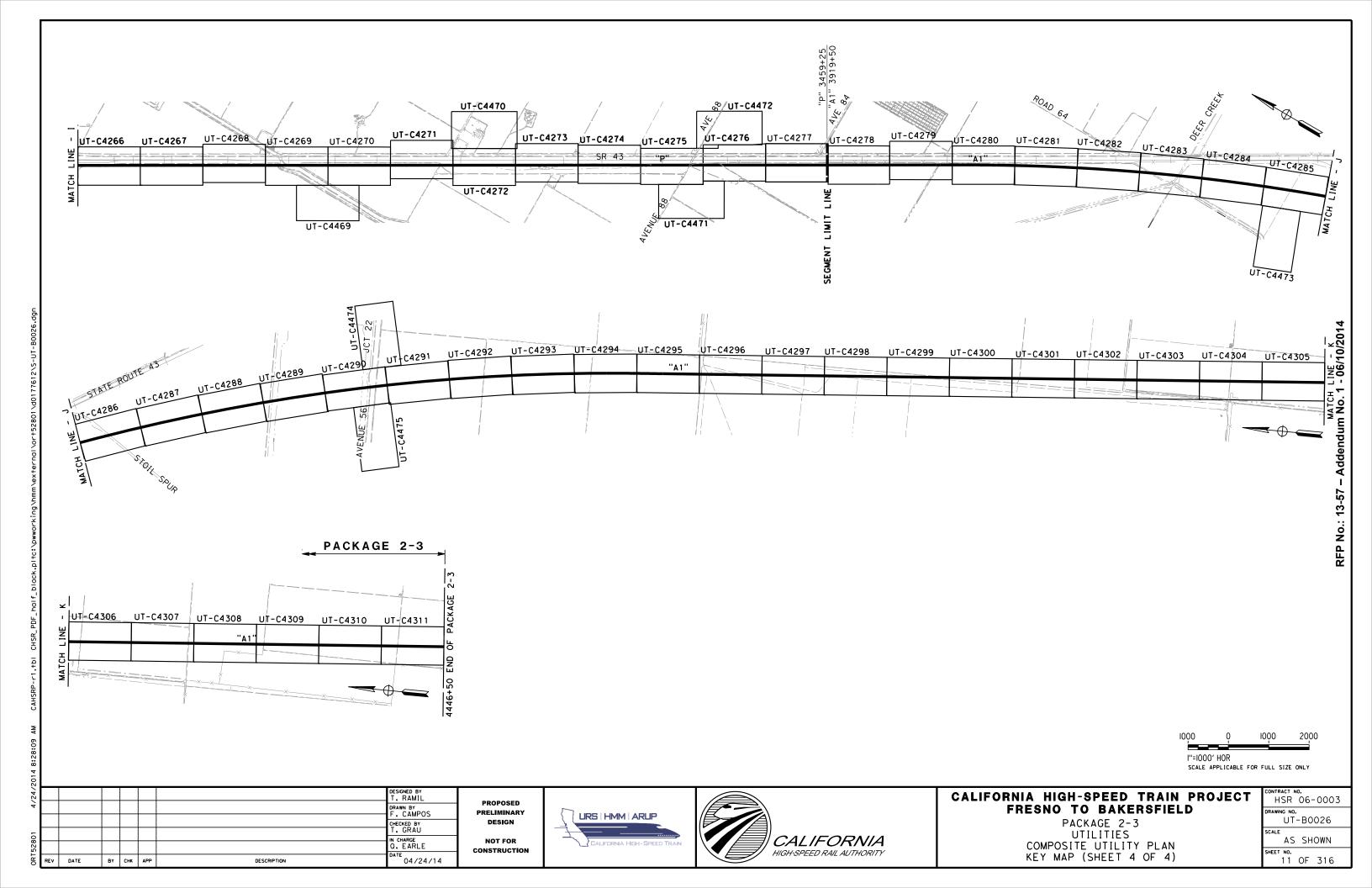
PACKAGE 2-3
UTILITIES
COMPOSITE UTILITY PLAN
LEGEND, SYMBOLS & ABBREVIATIONS

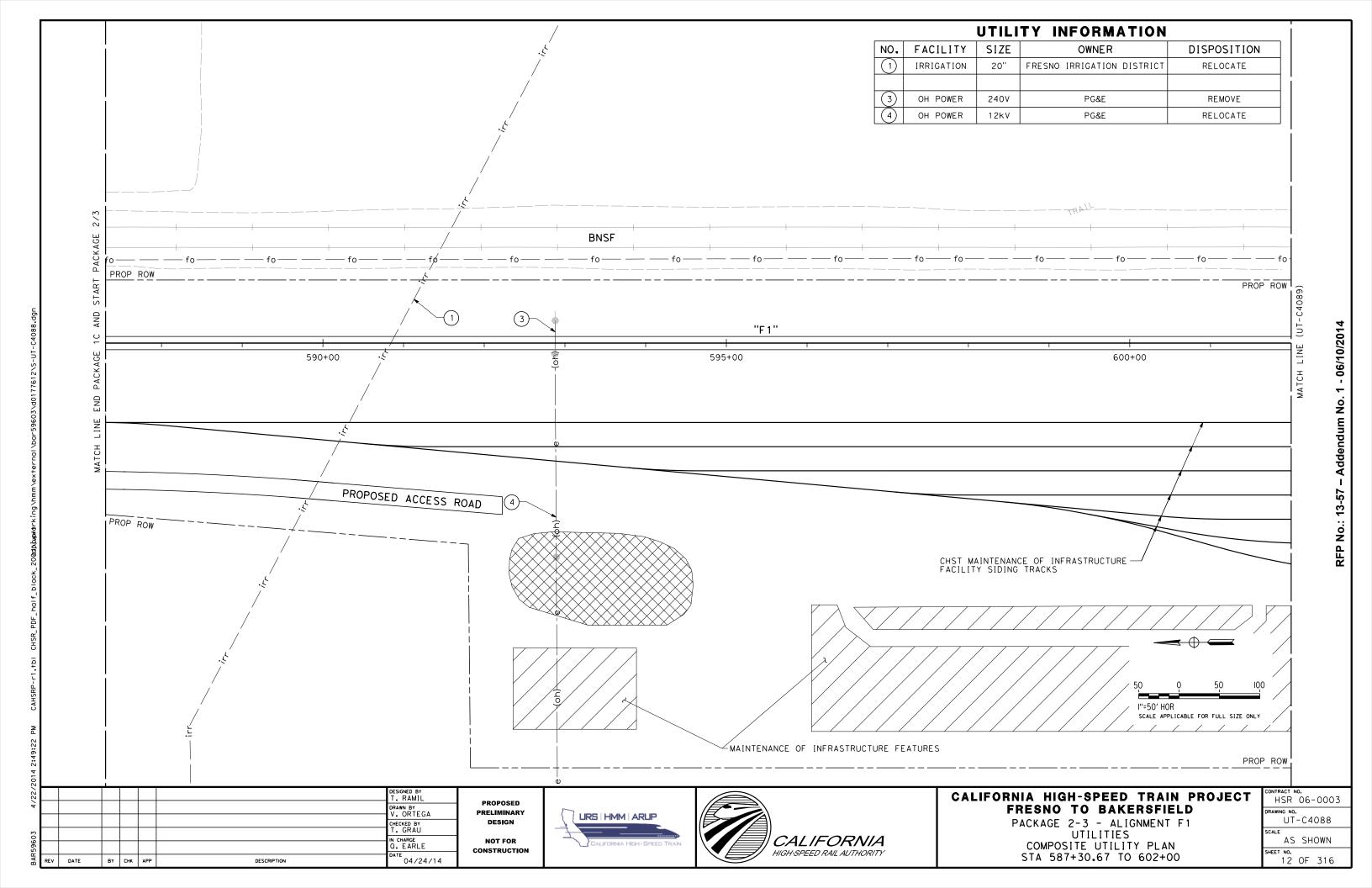
CONTRACT NO.
HSR 06-0003
DRAWING NO.
UT-B0022
SCALE
NO SCALE
SHEET NO. 7 OF 316
NO SCALE

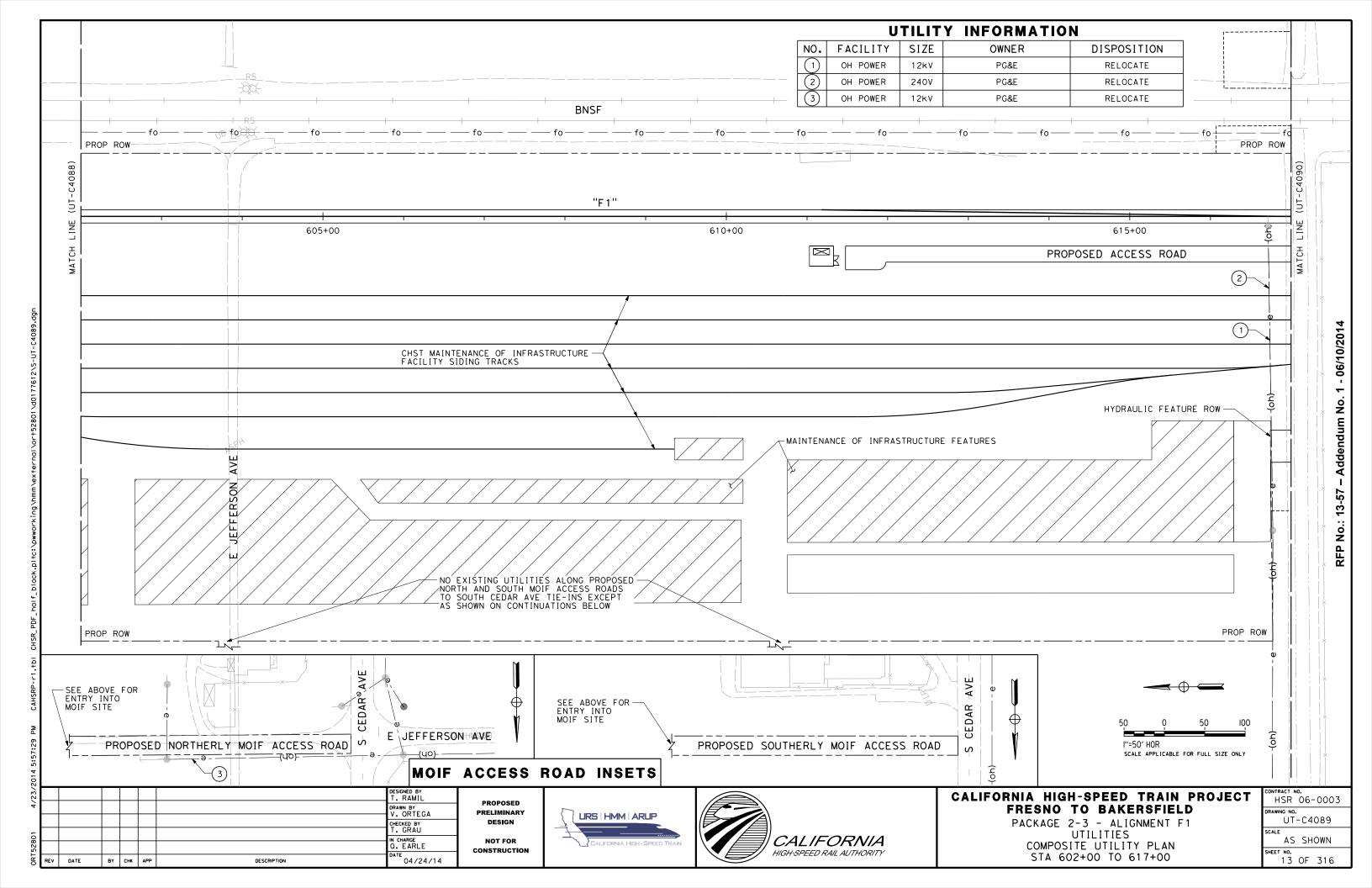


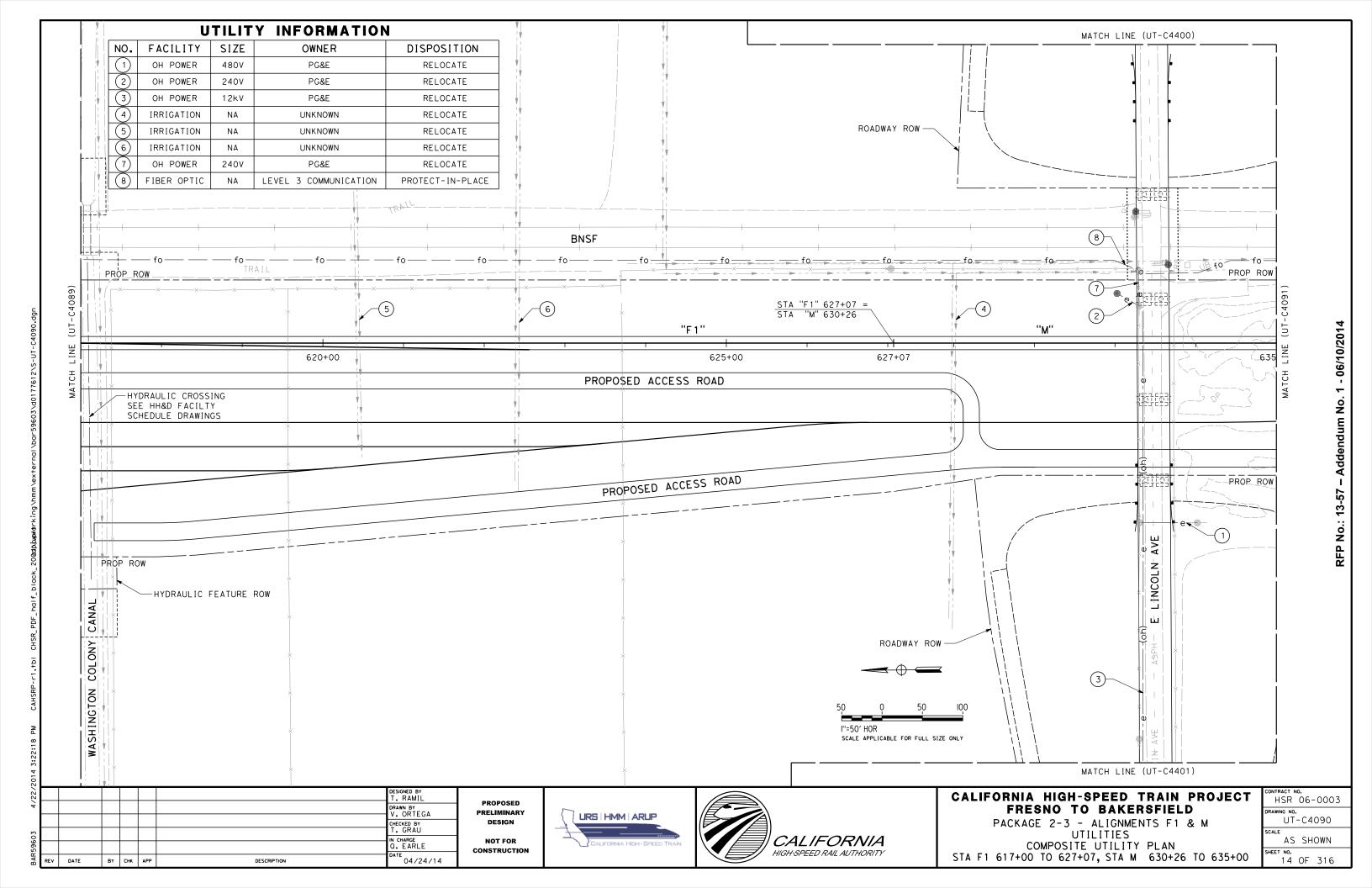


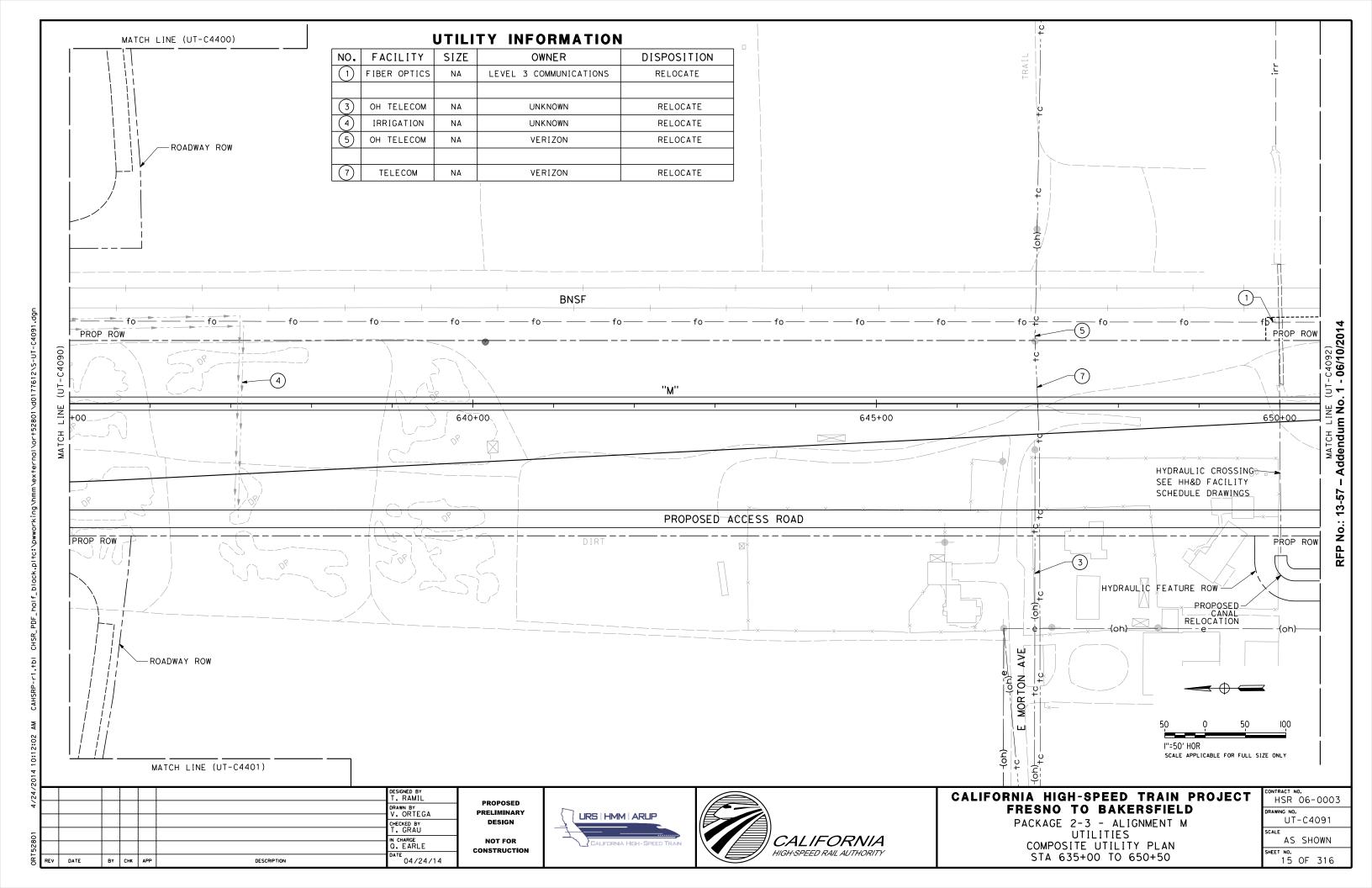


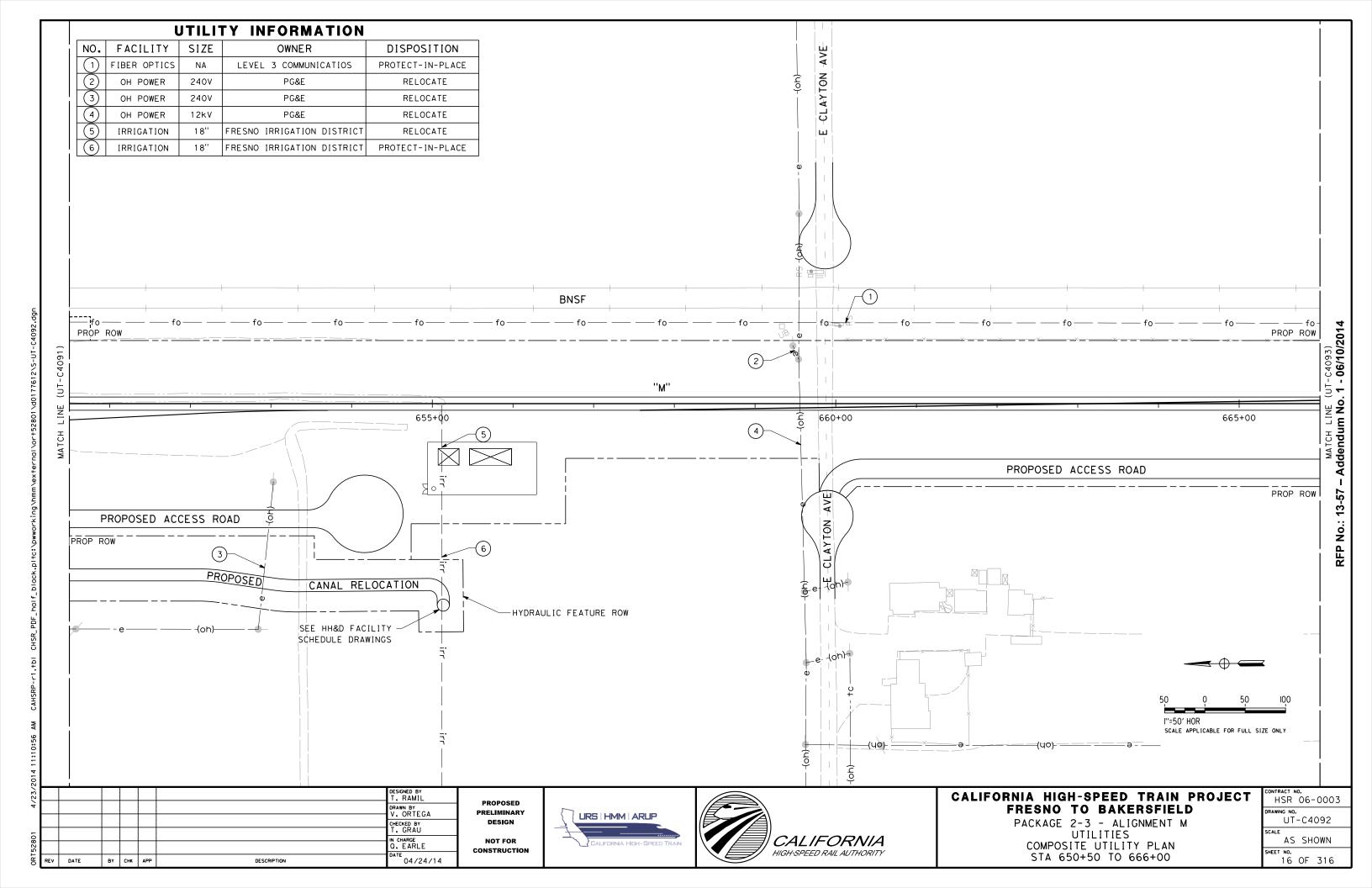


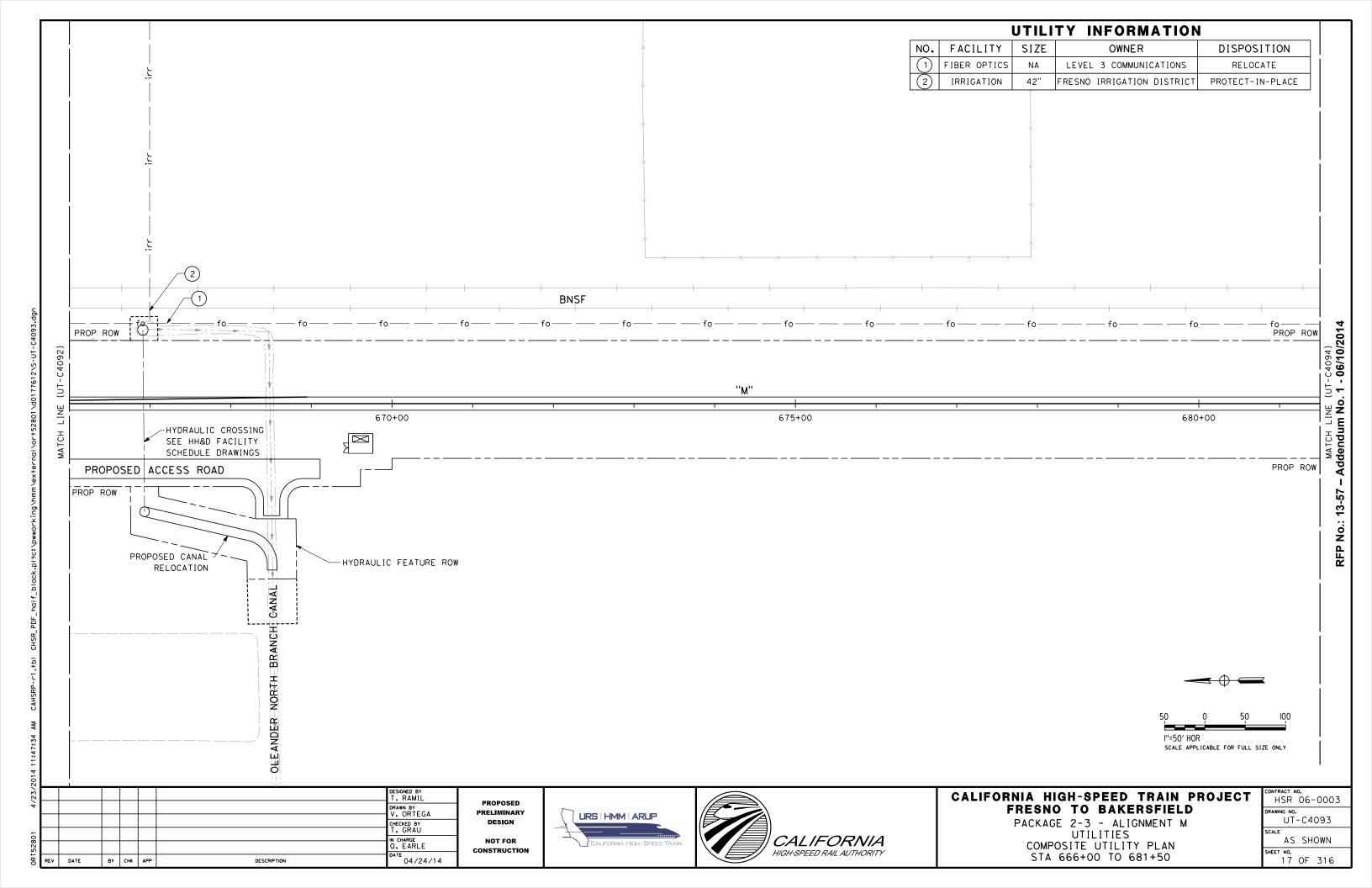


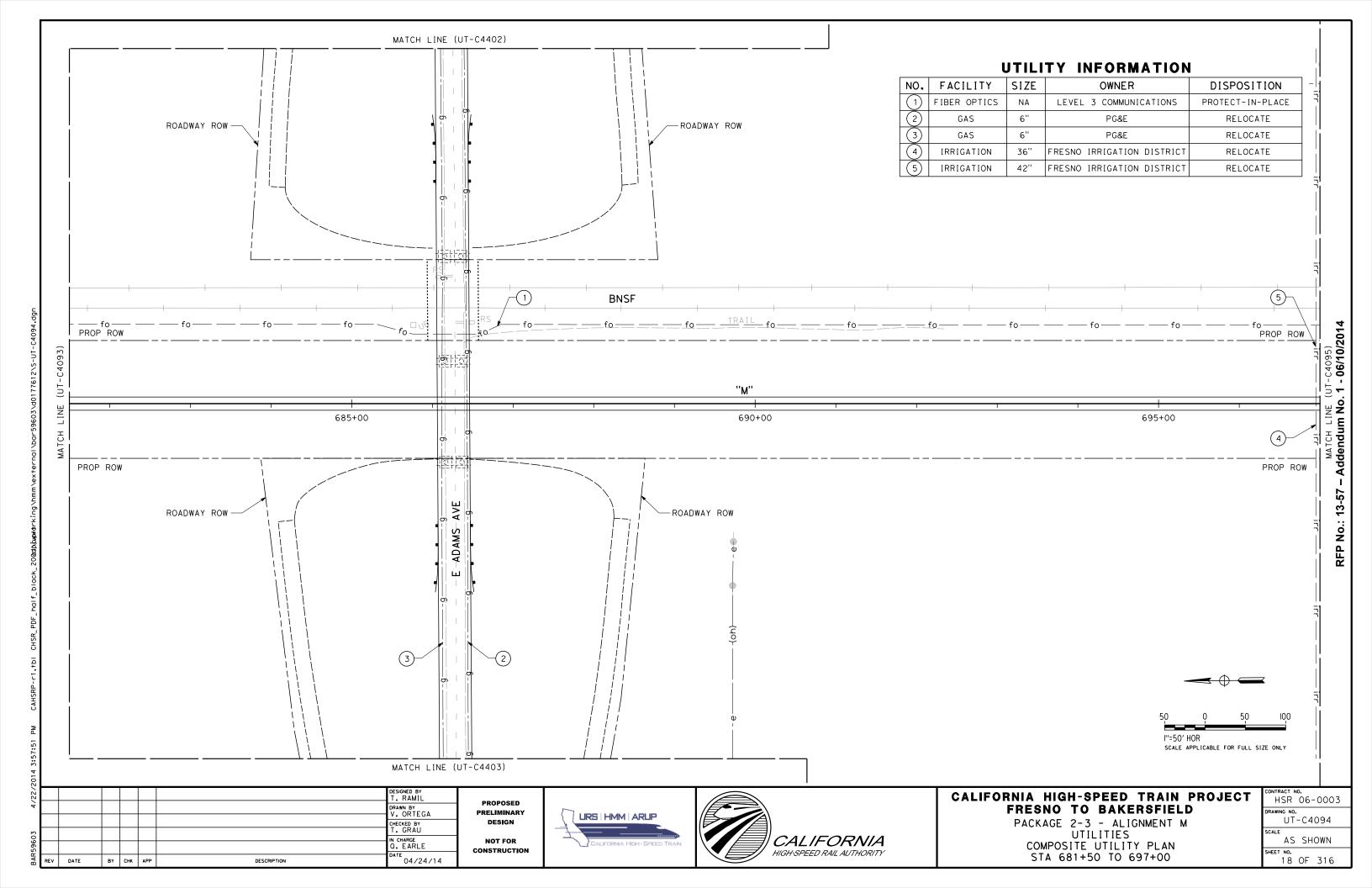


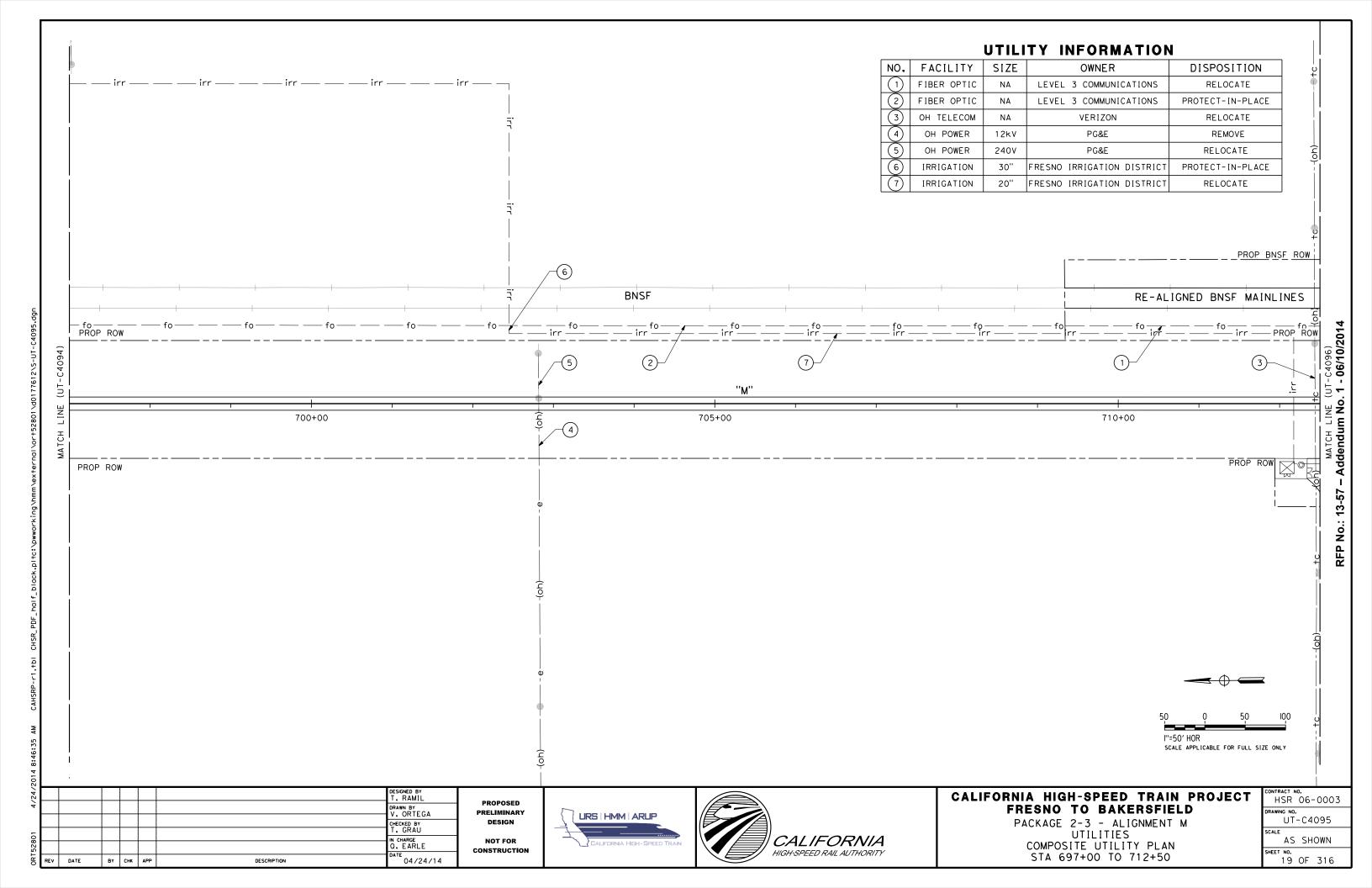


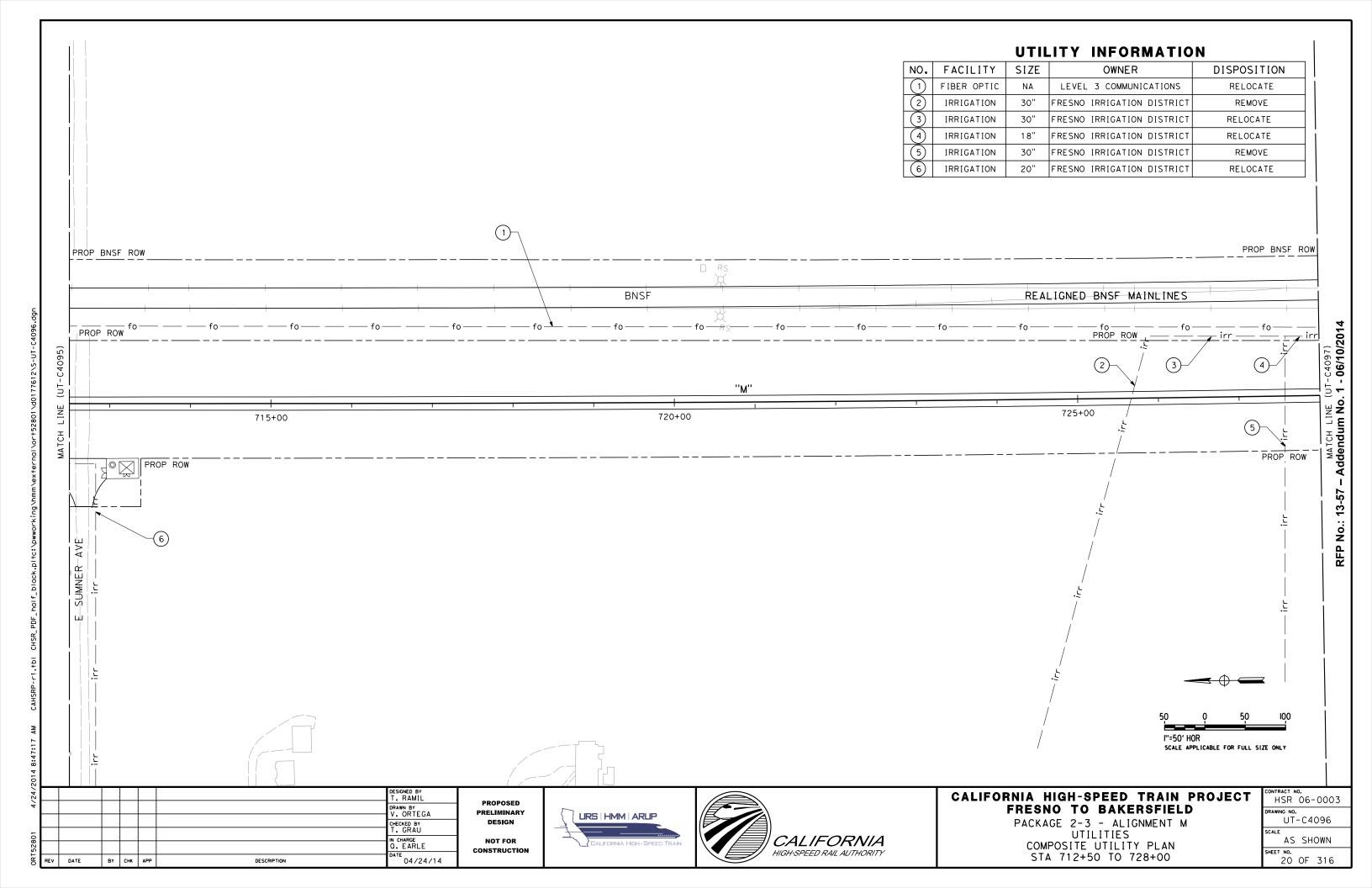


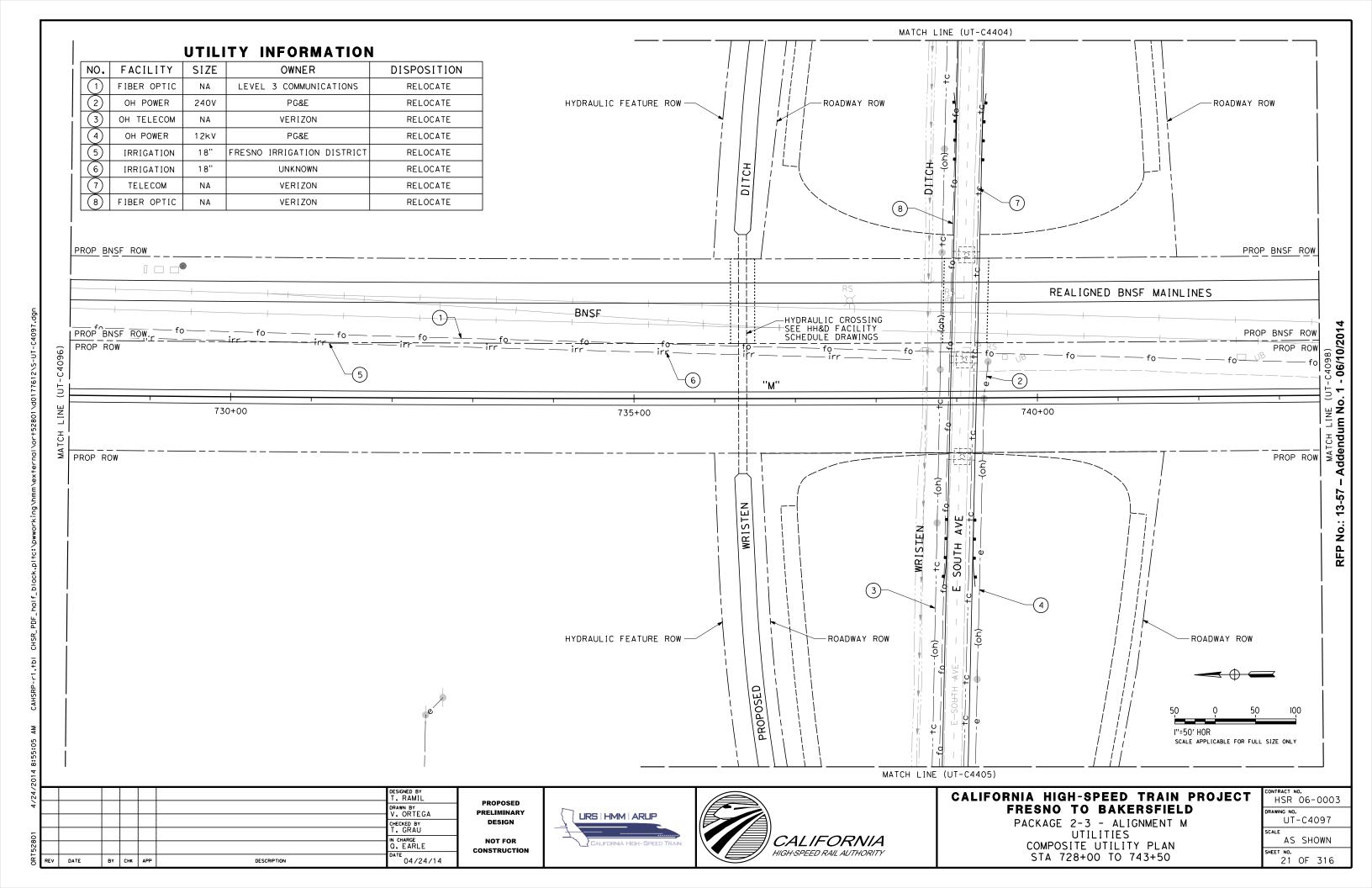


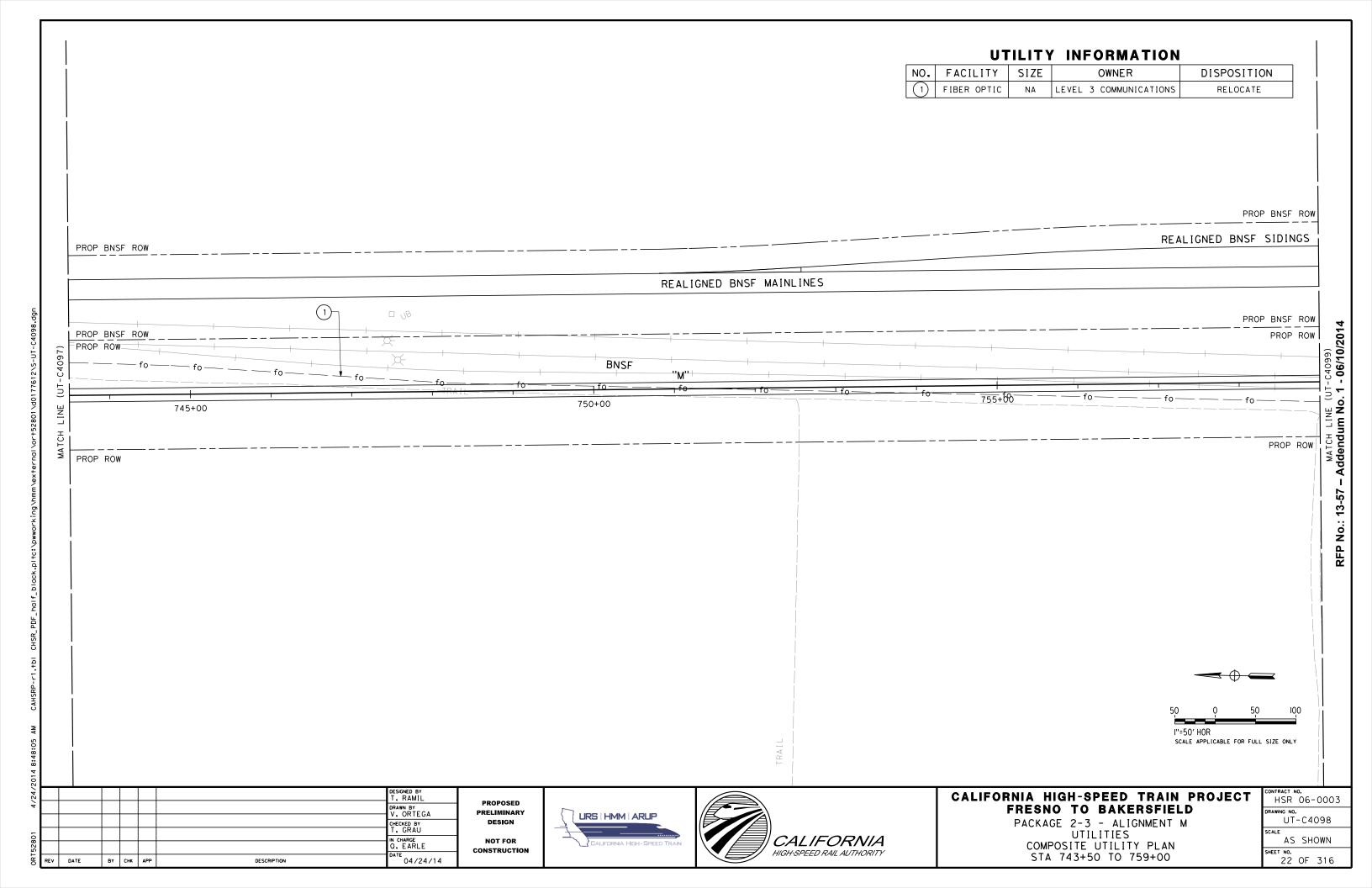


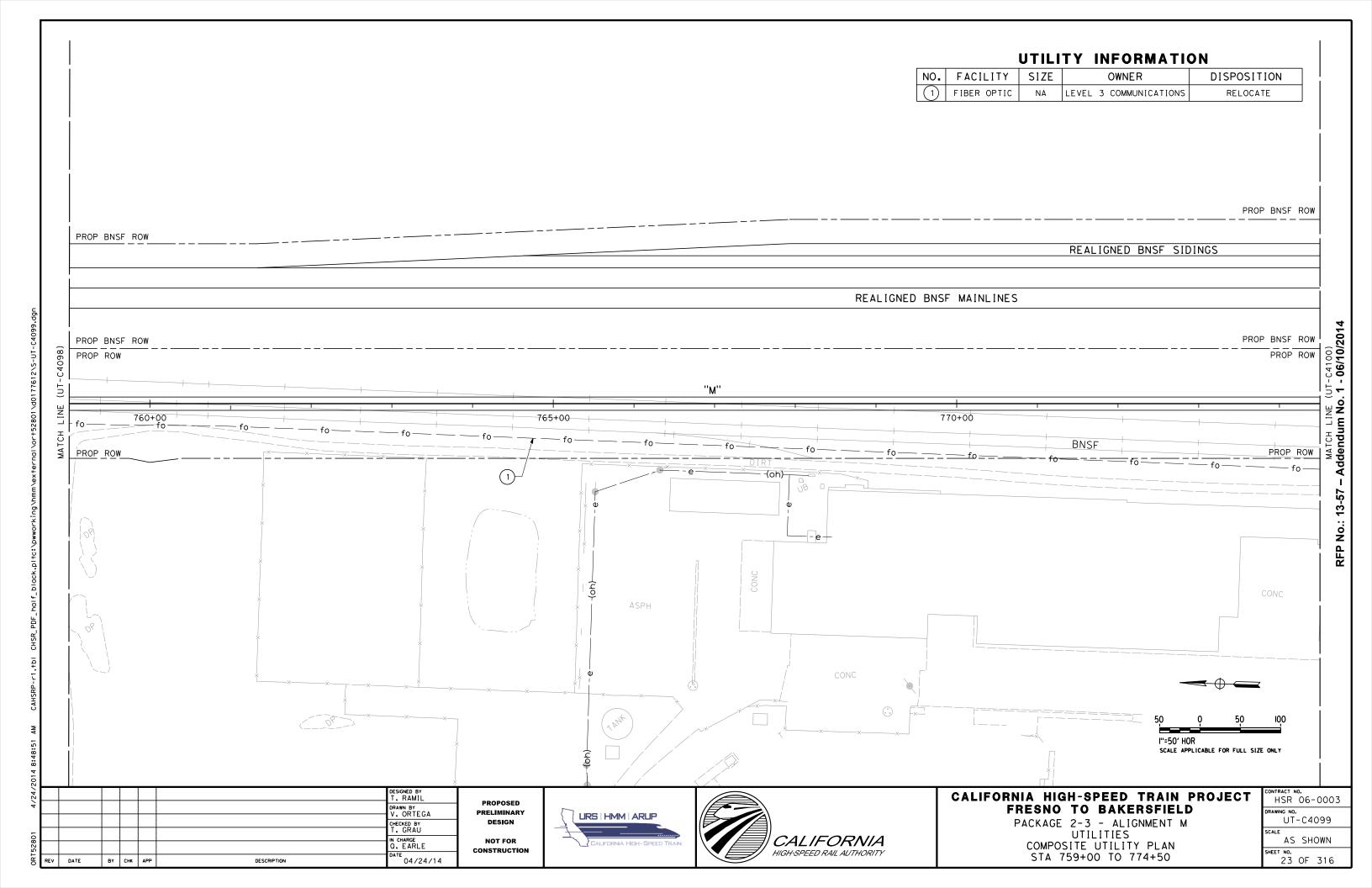


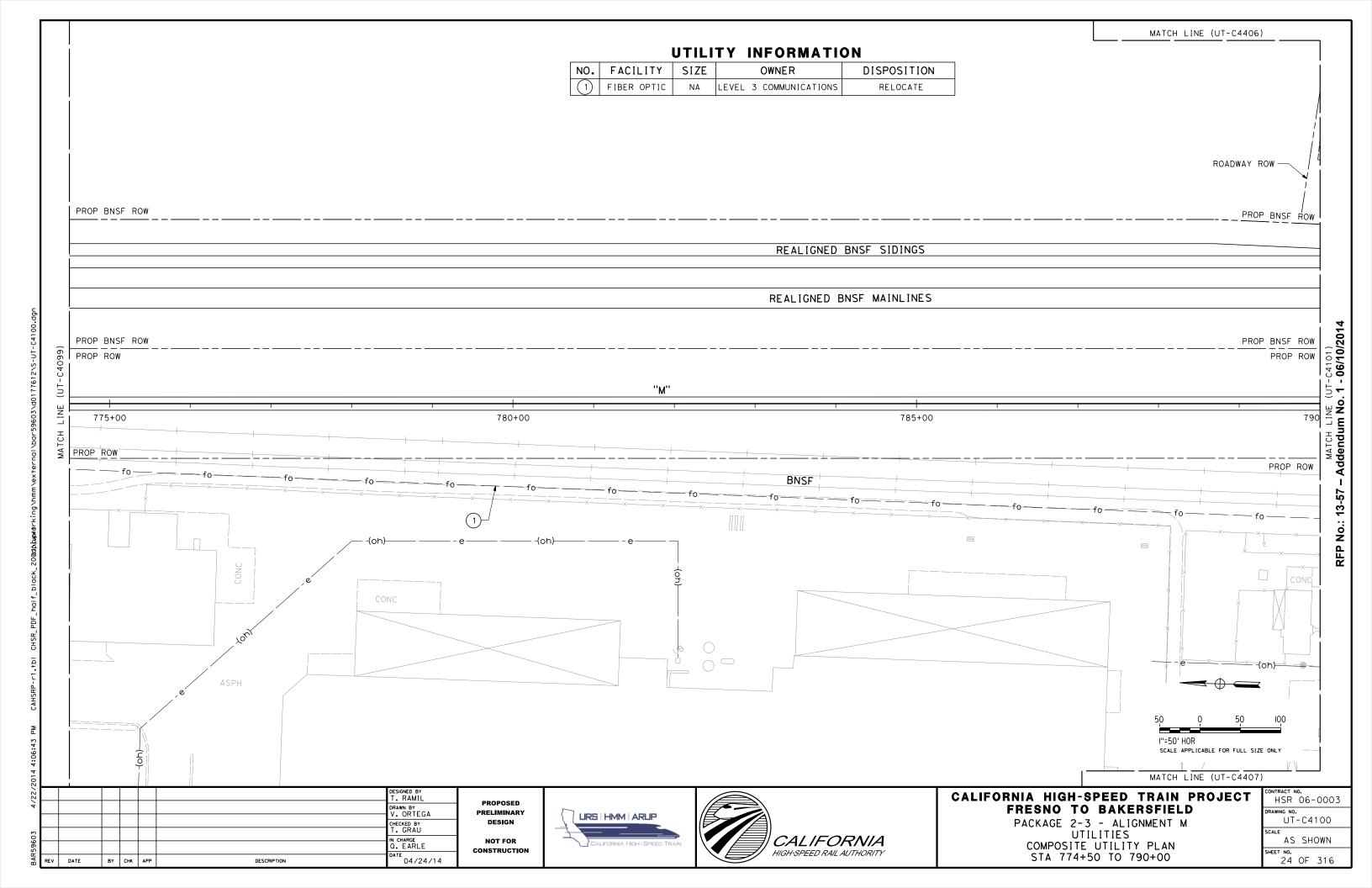


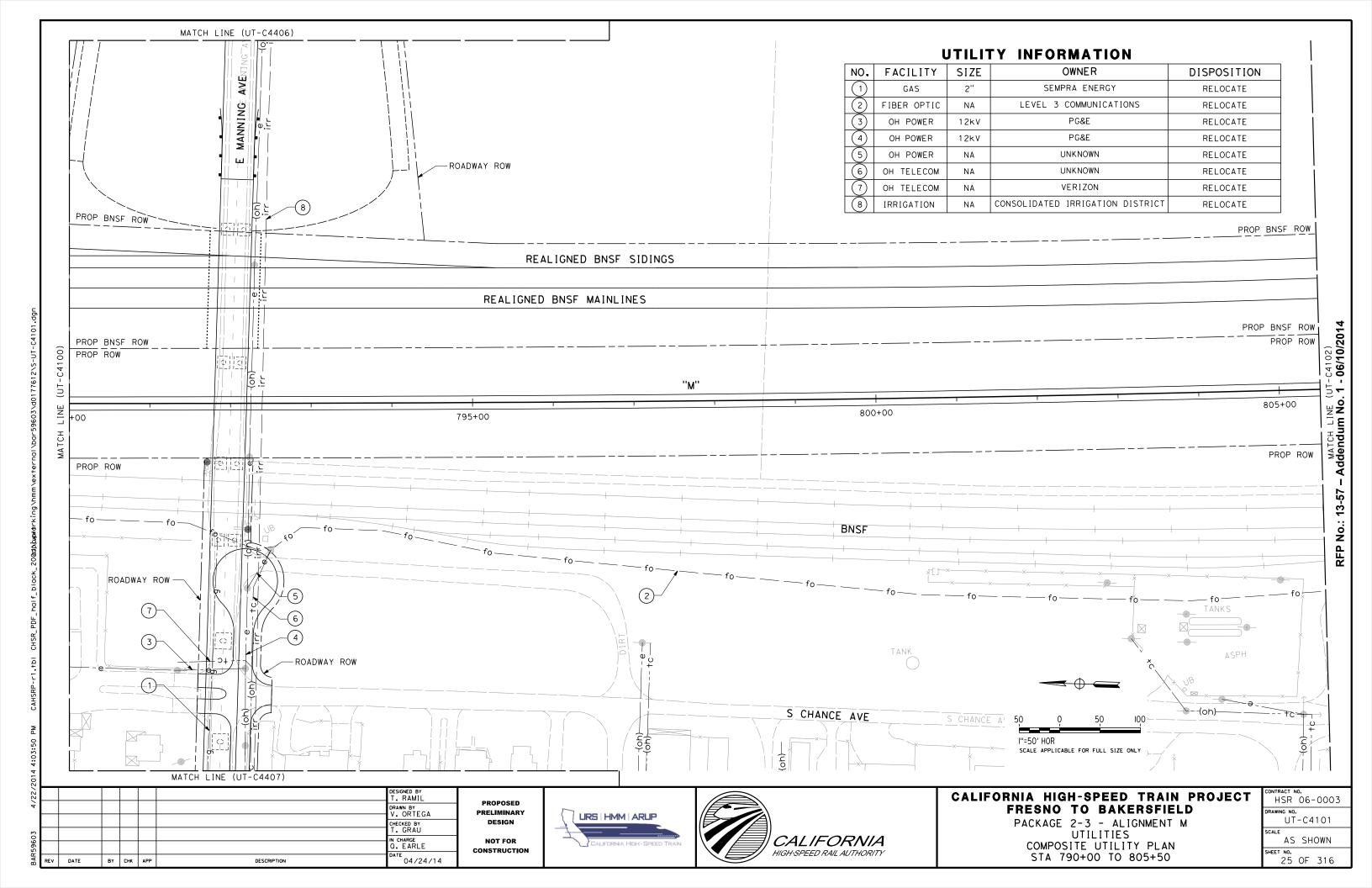


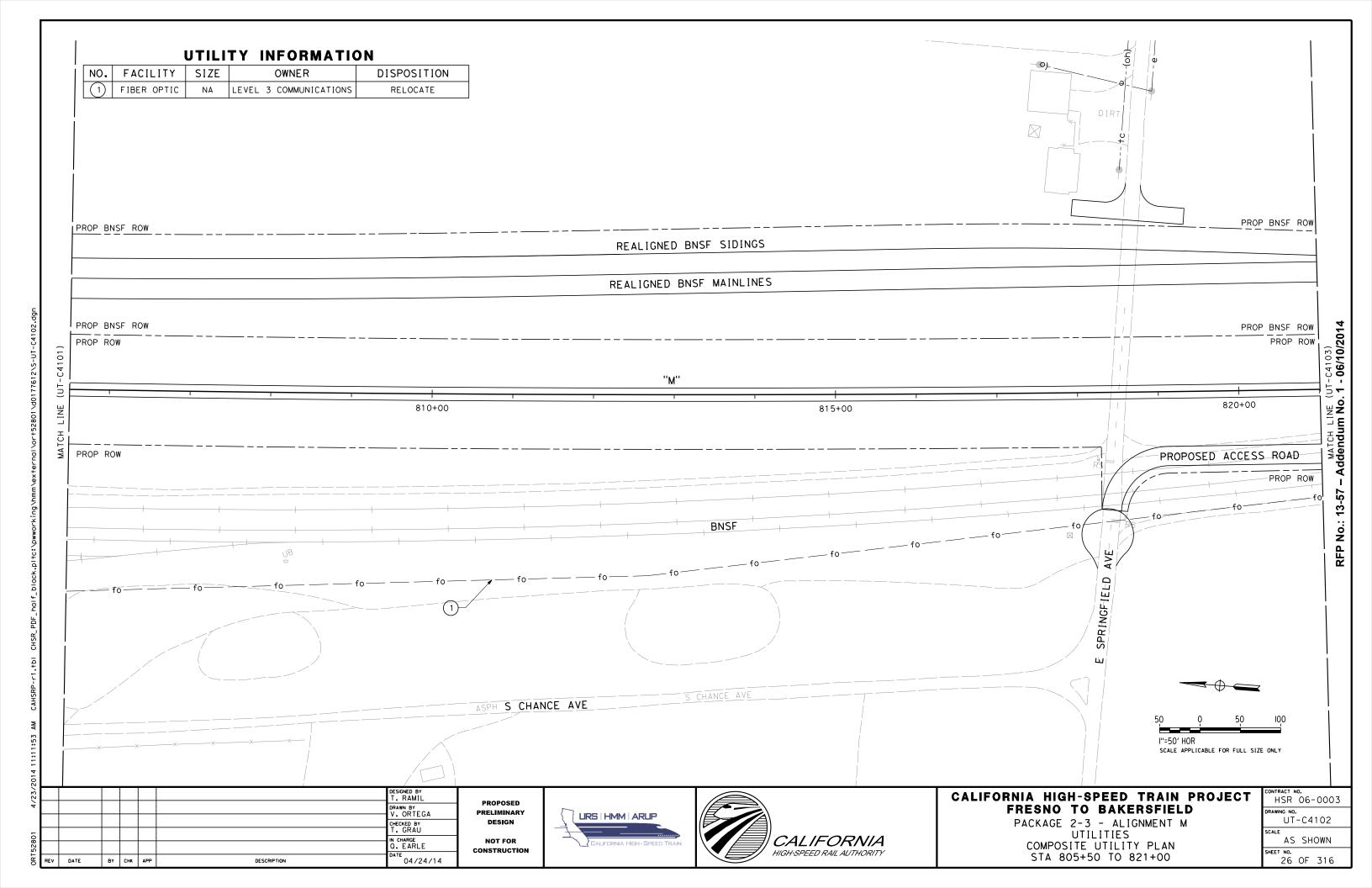


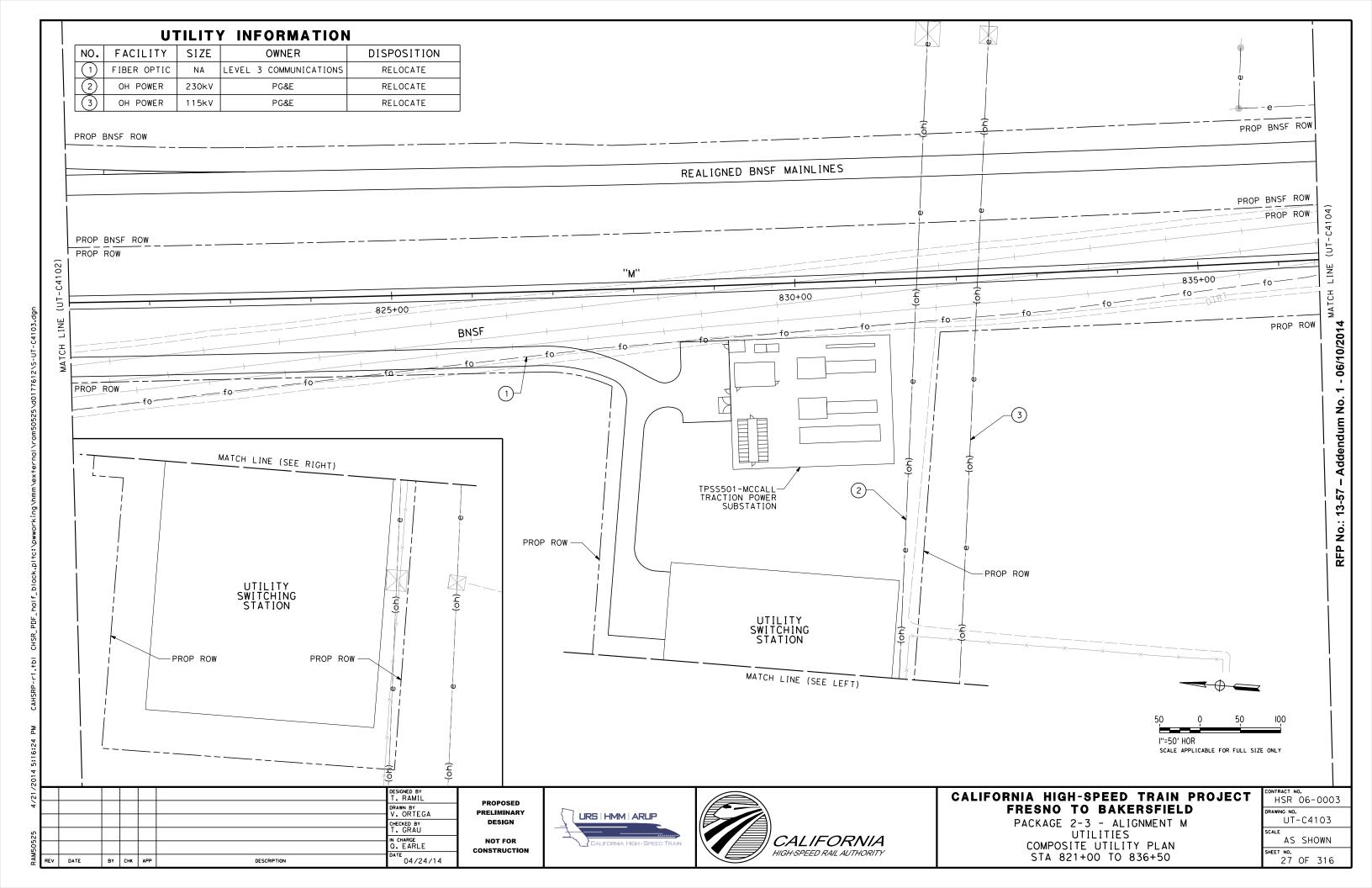


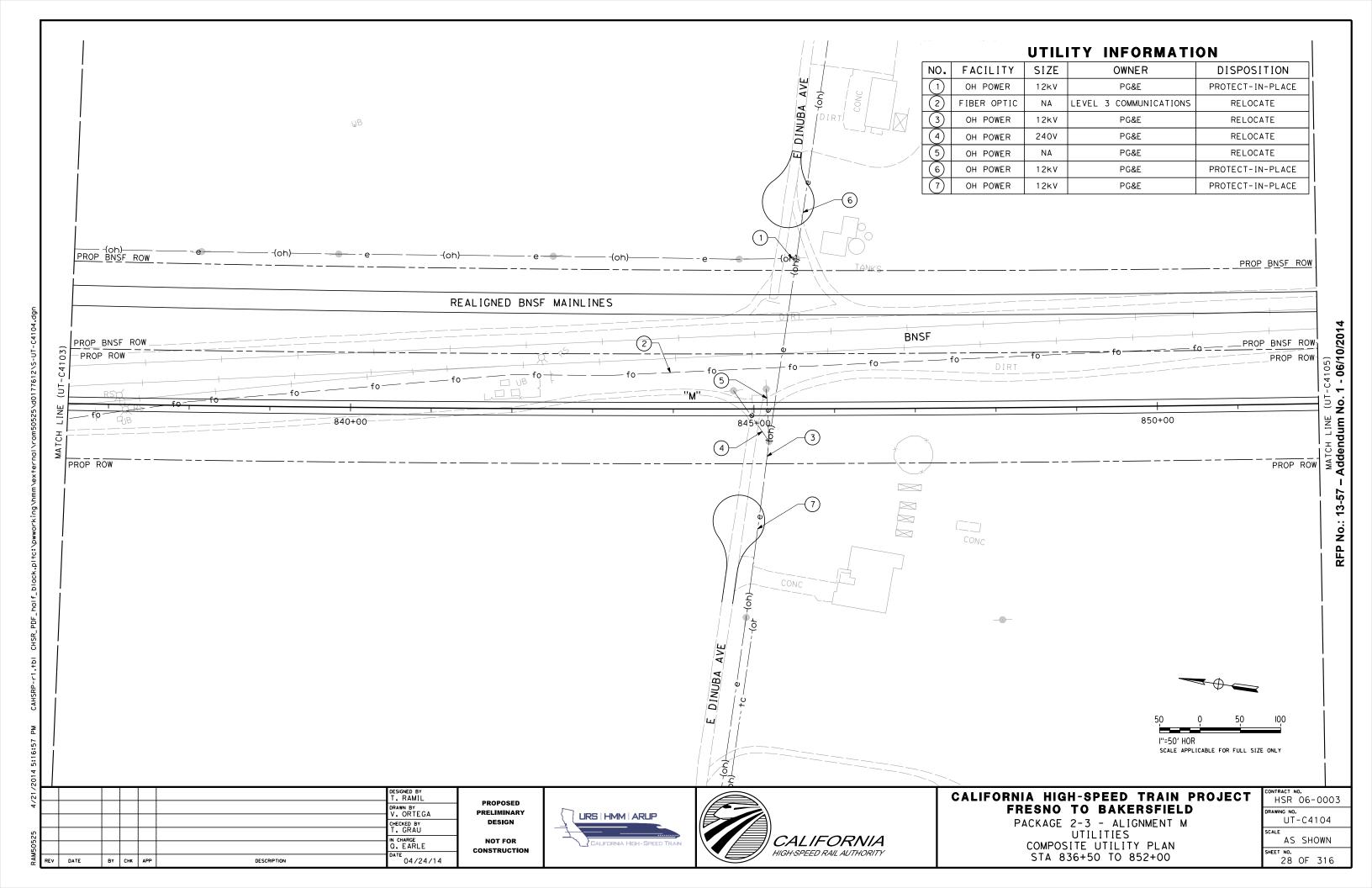


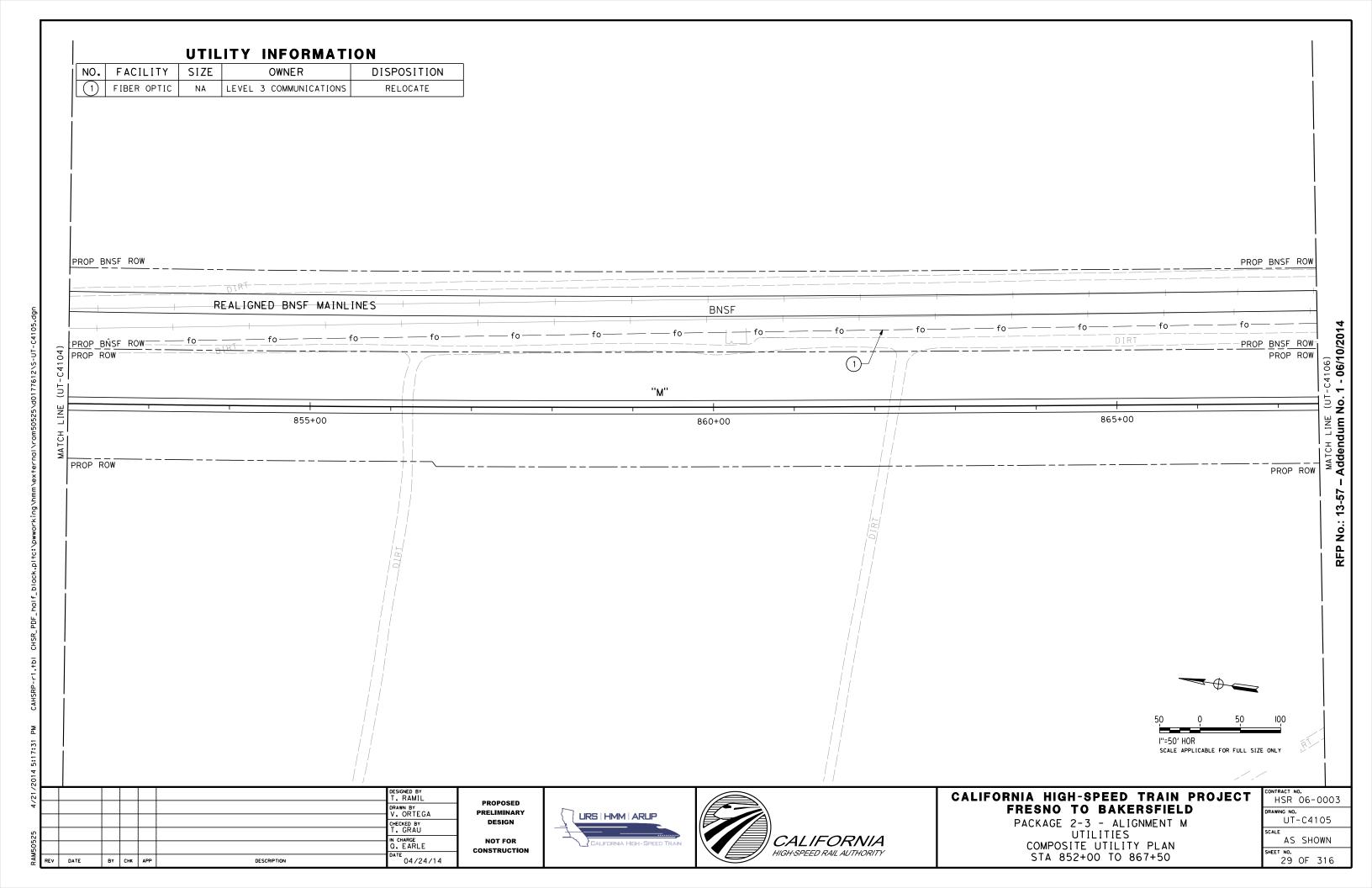


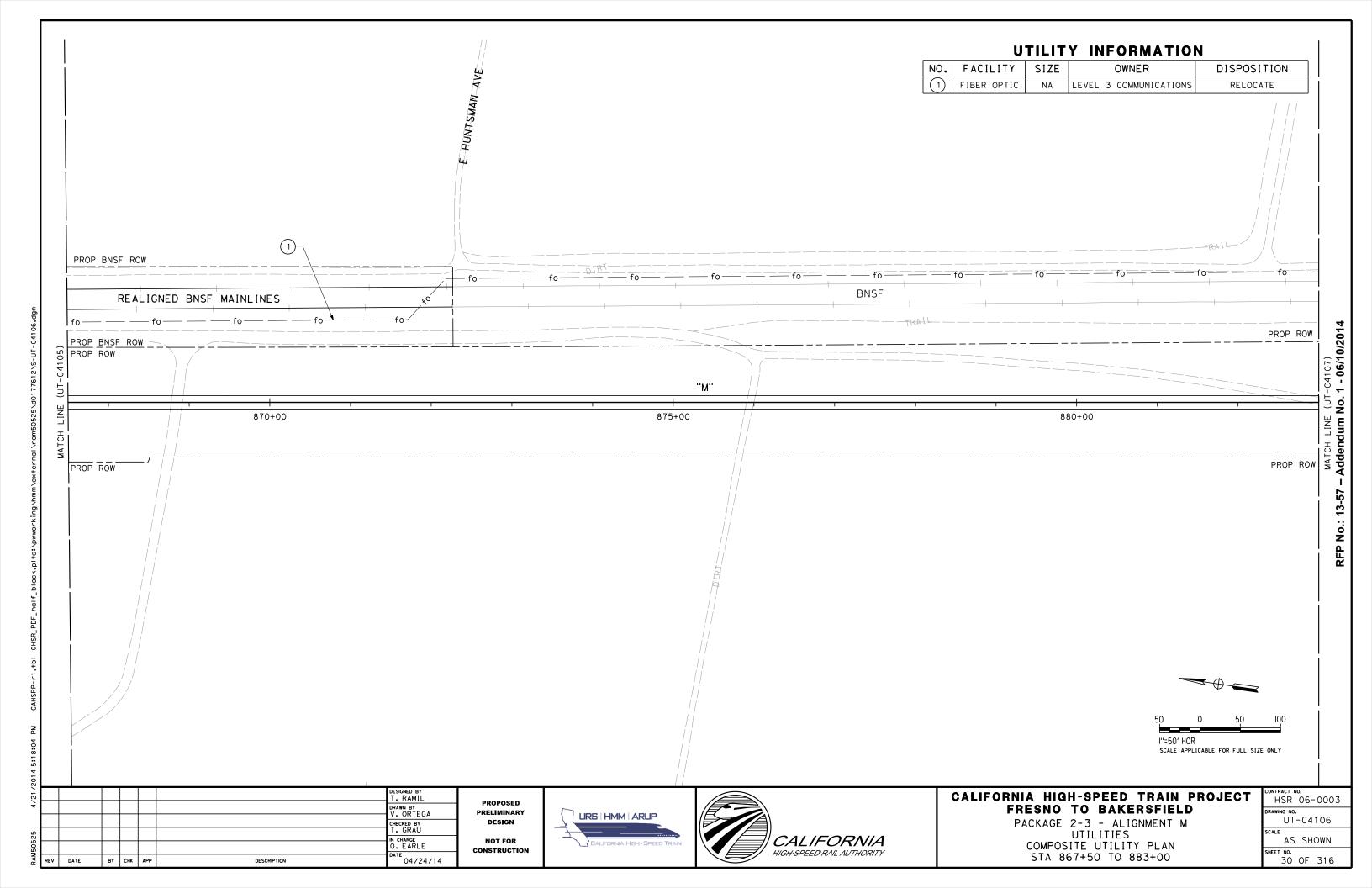


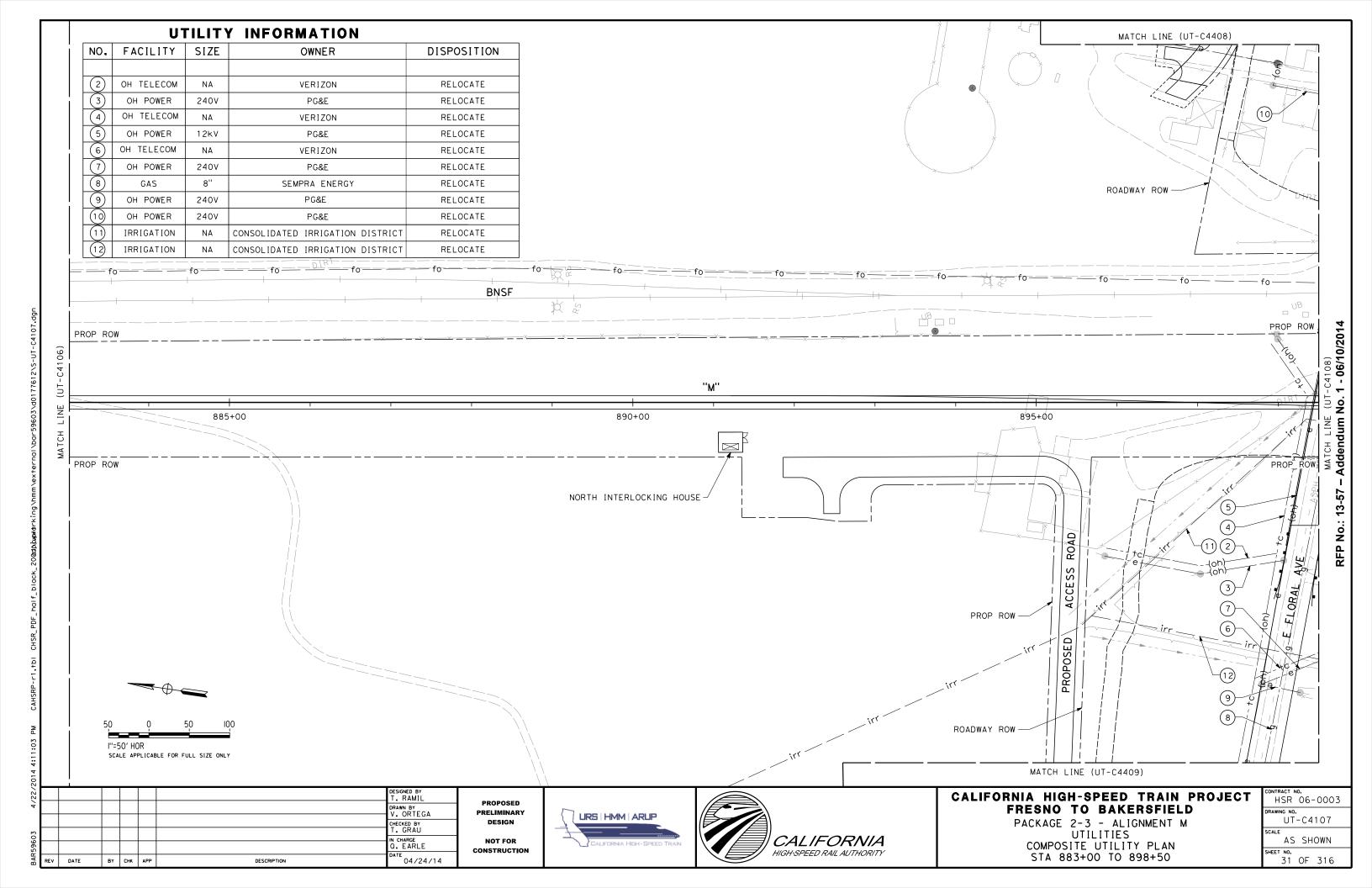


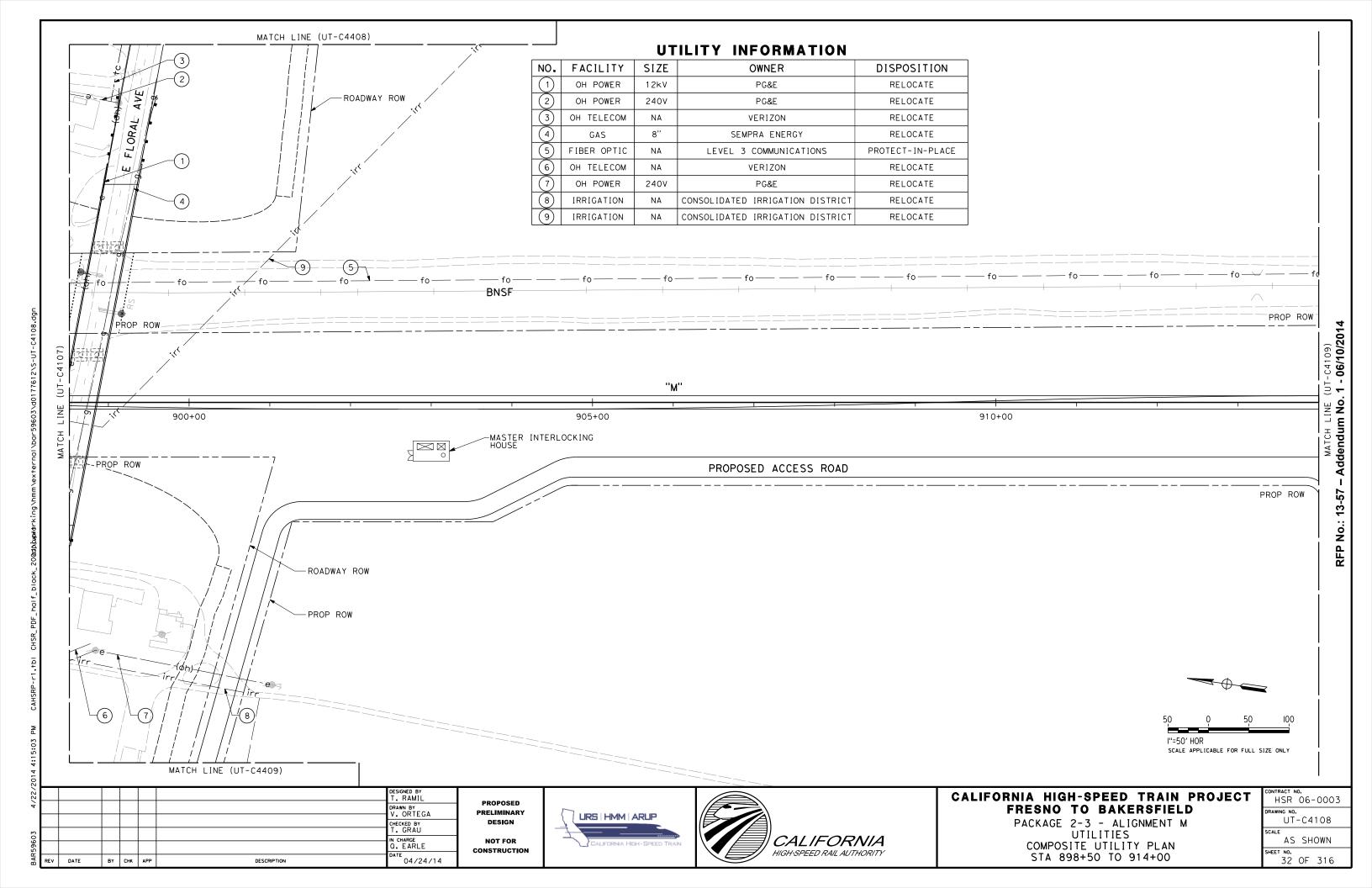


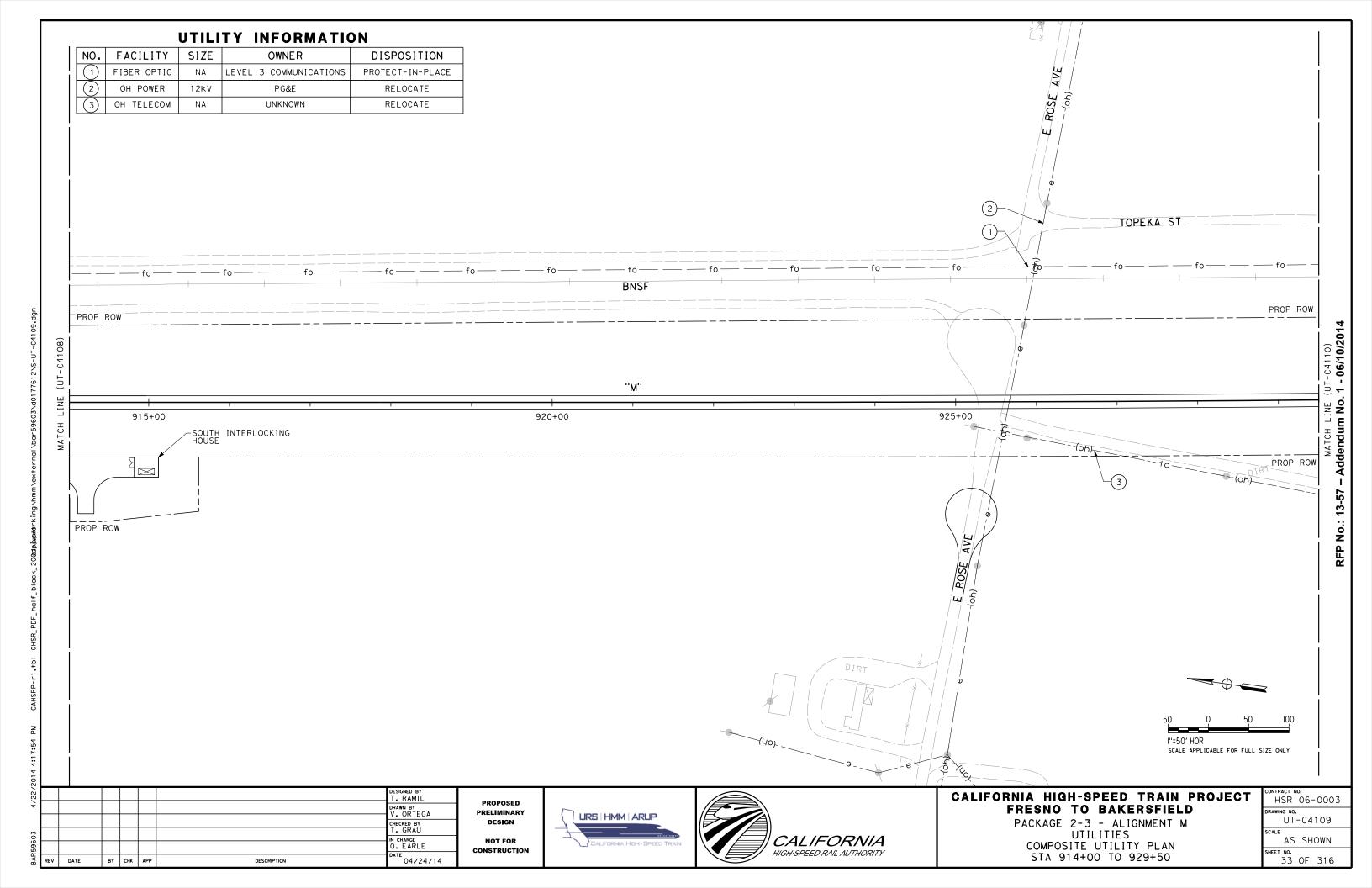


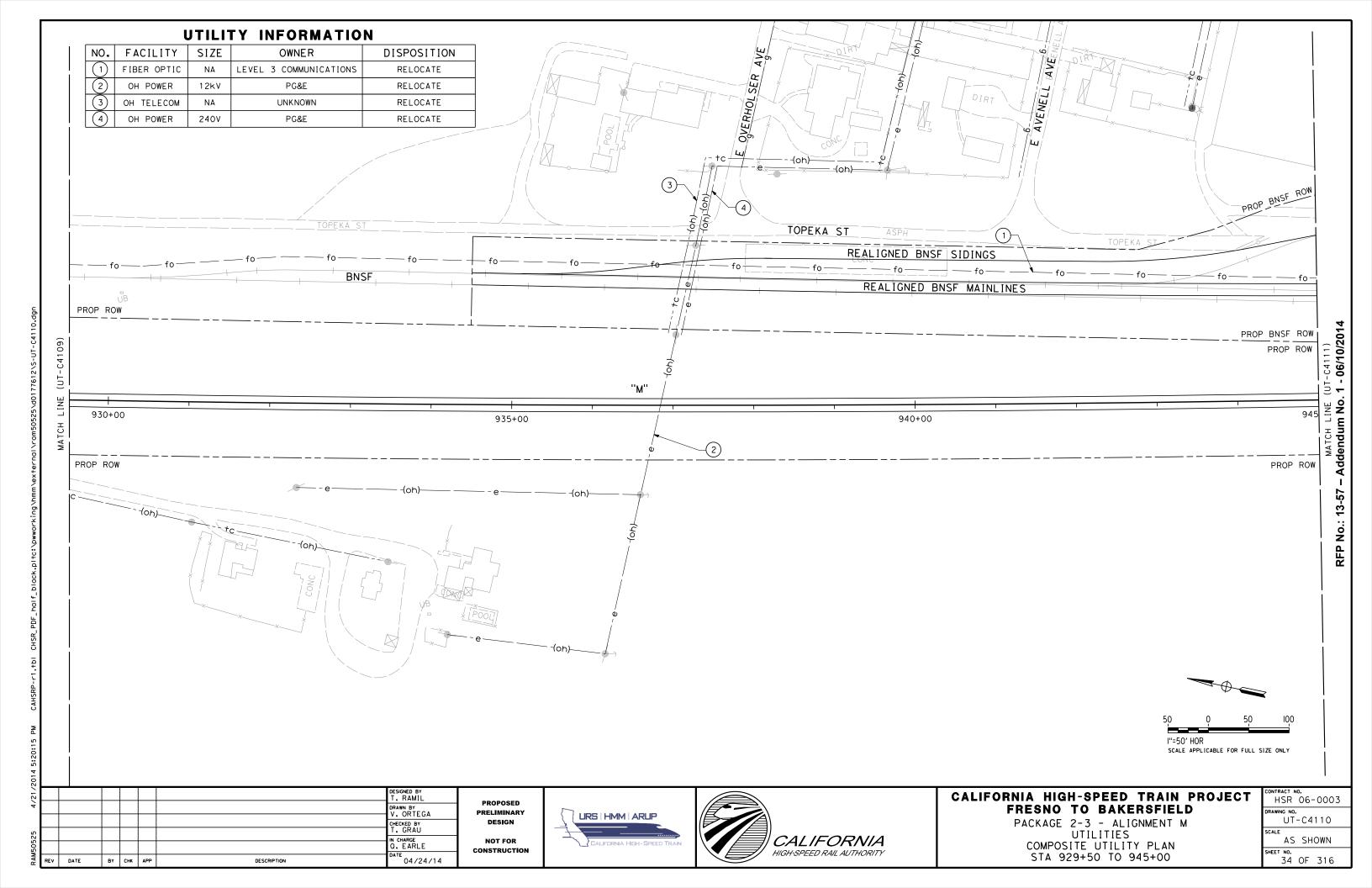


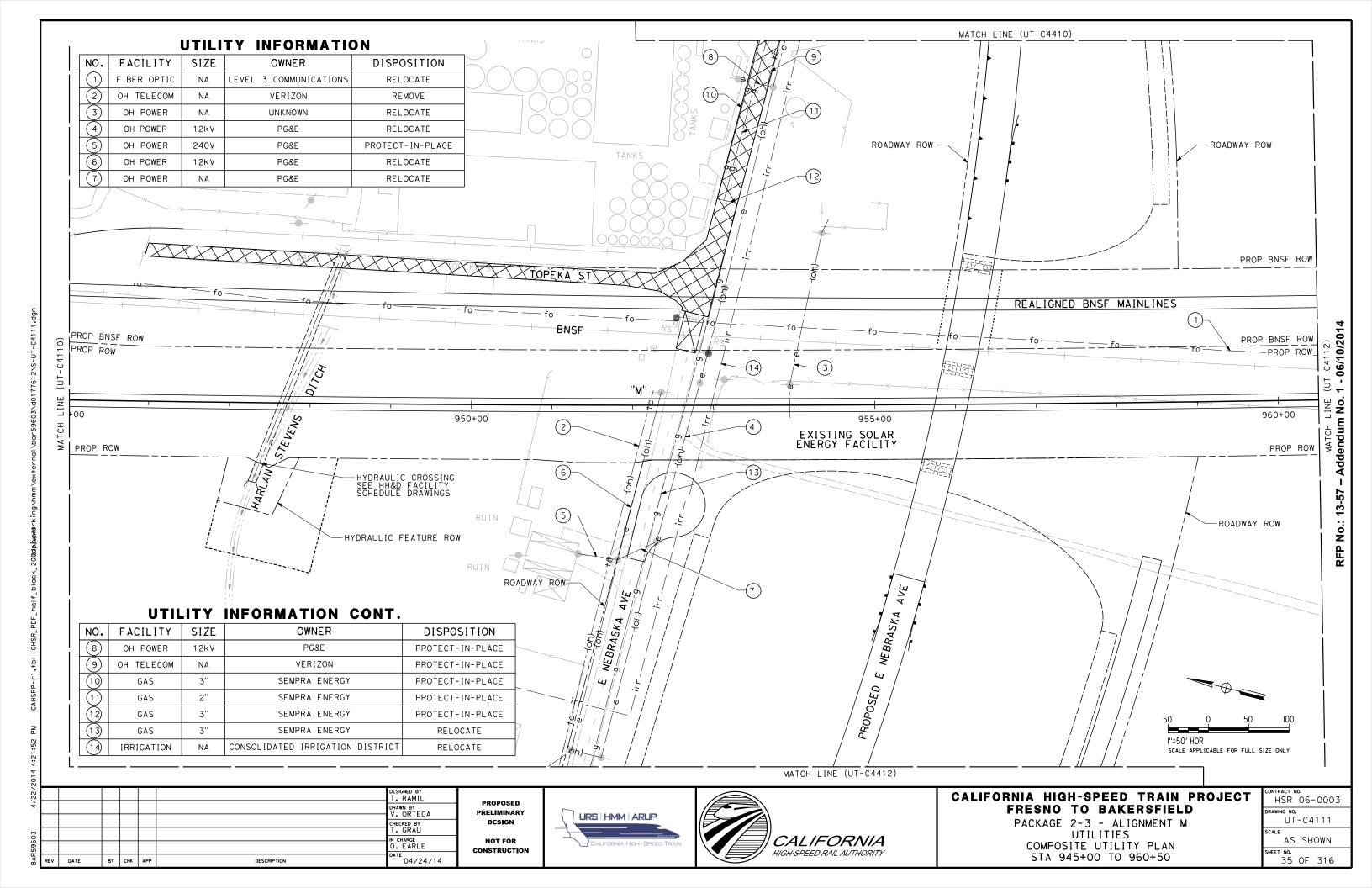


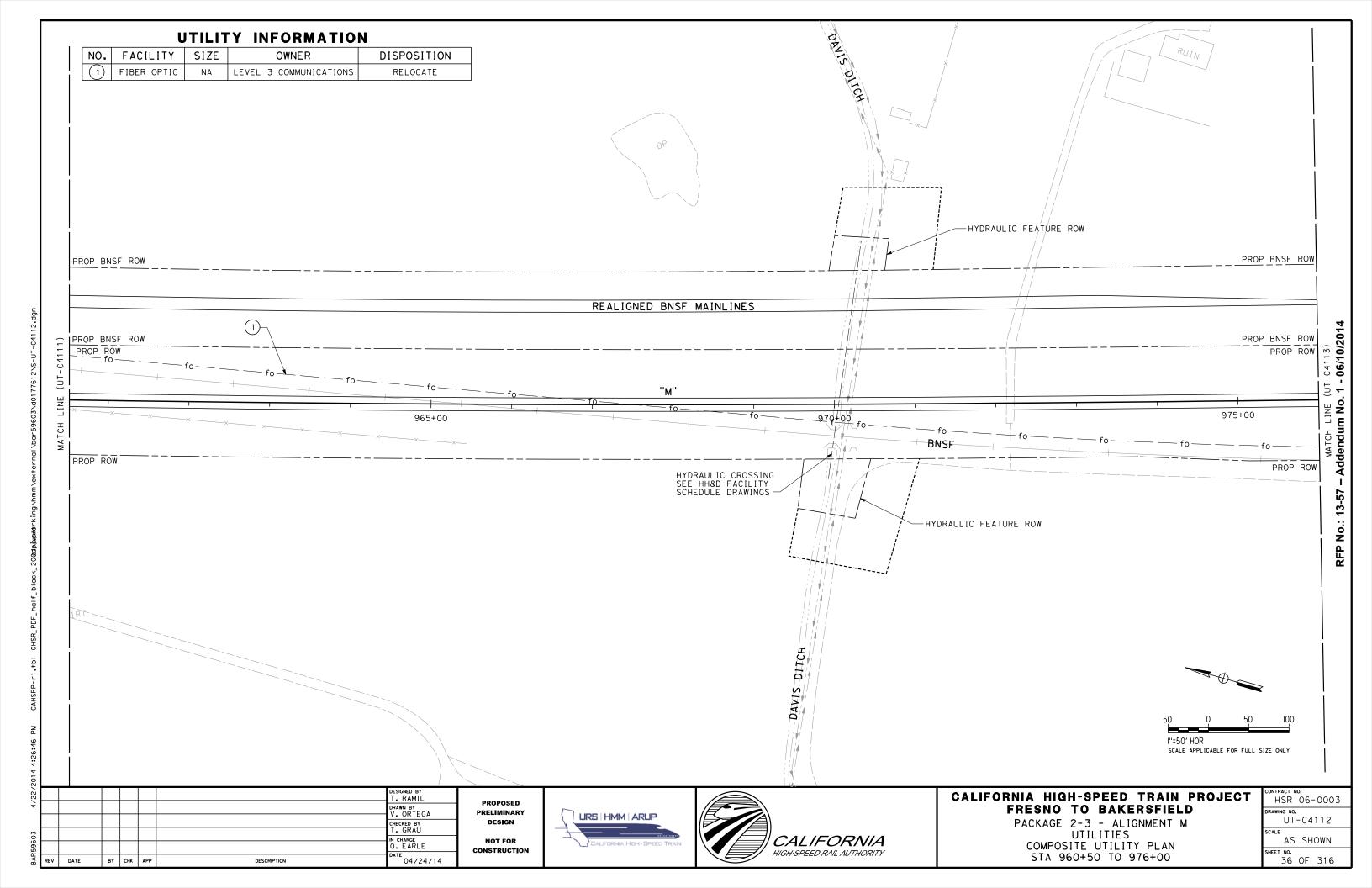


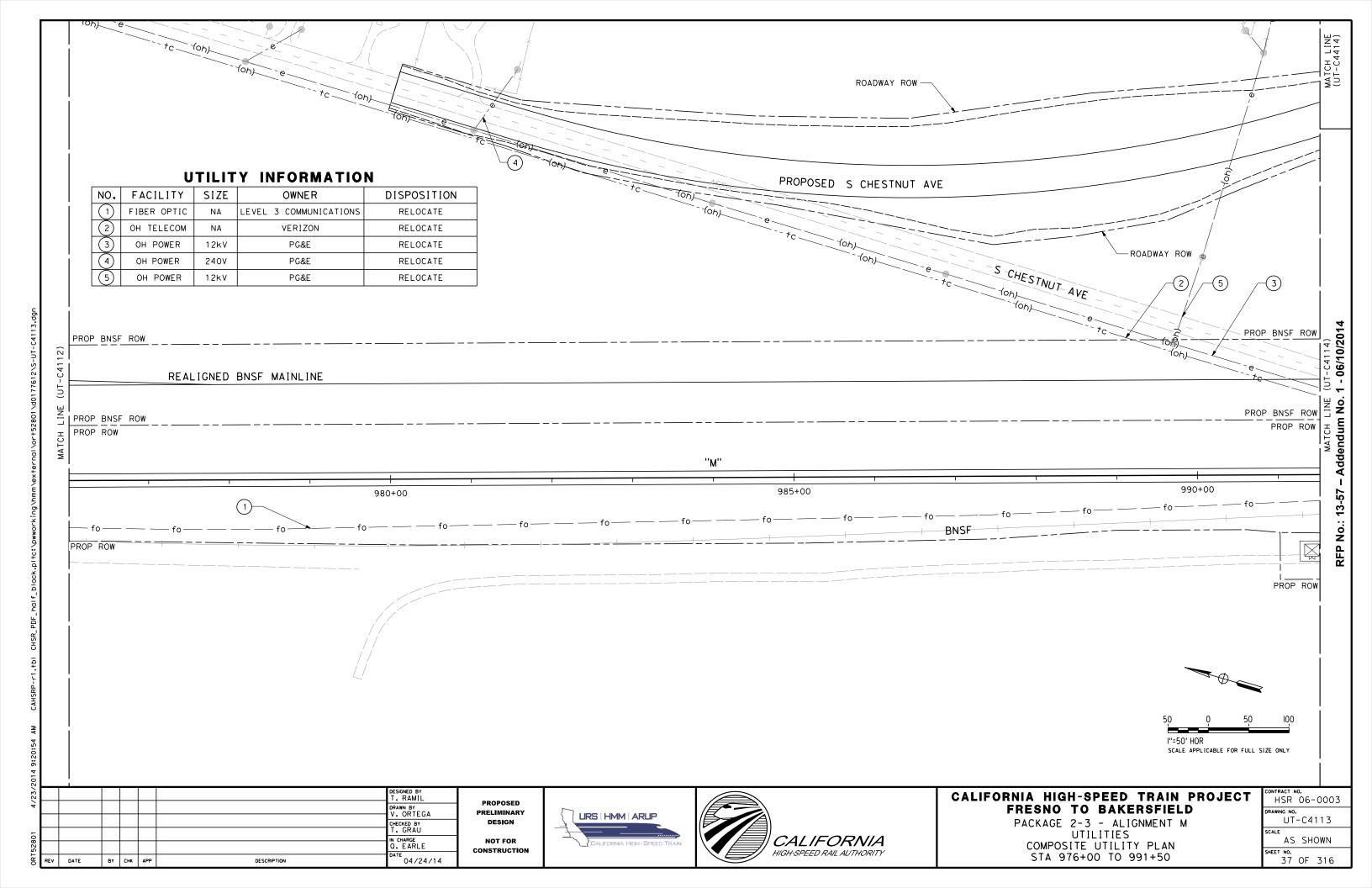


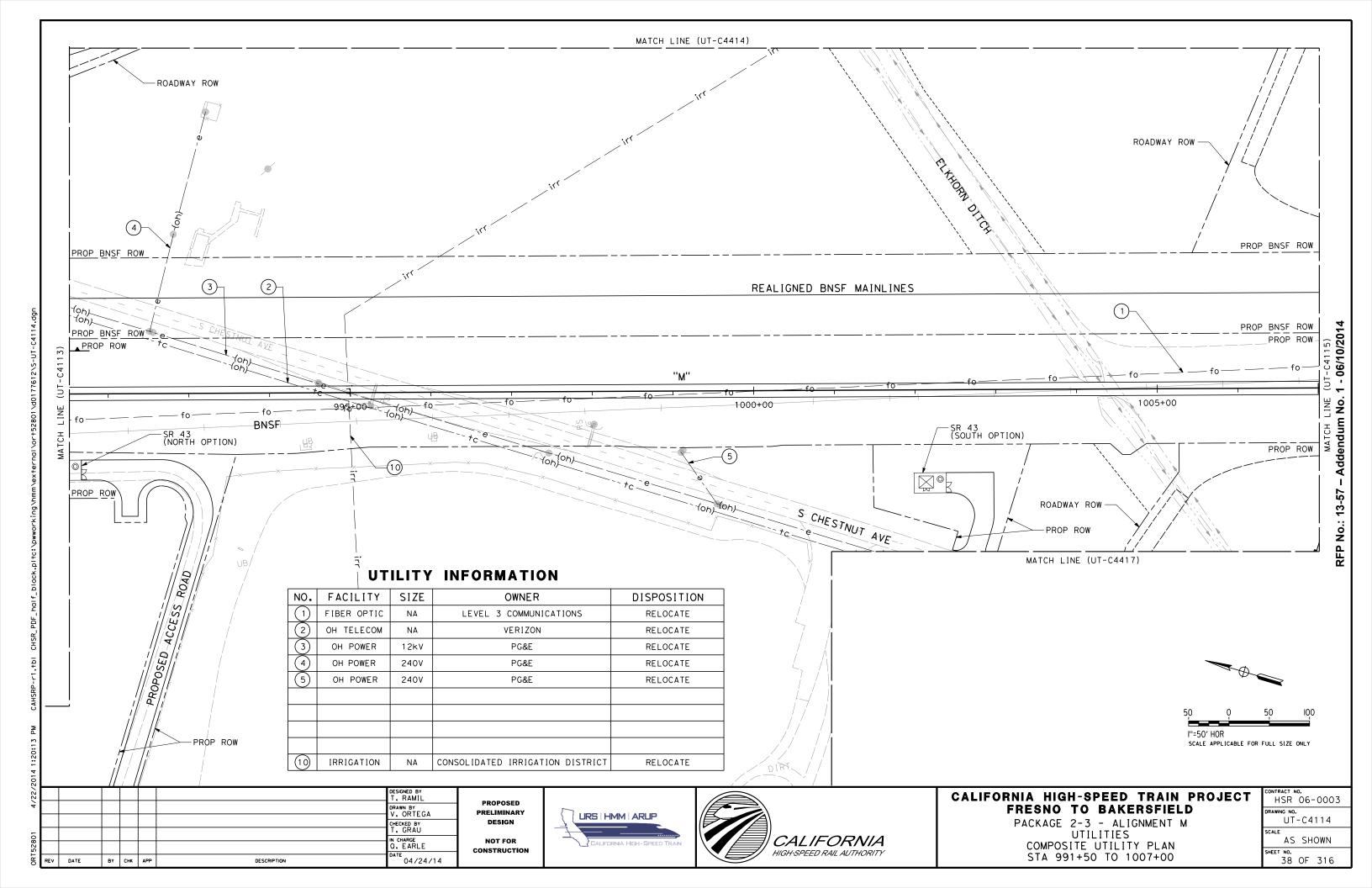


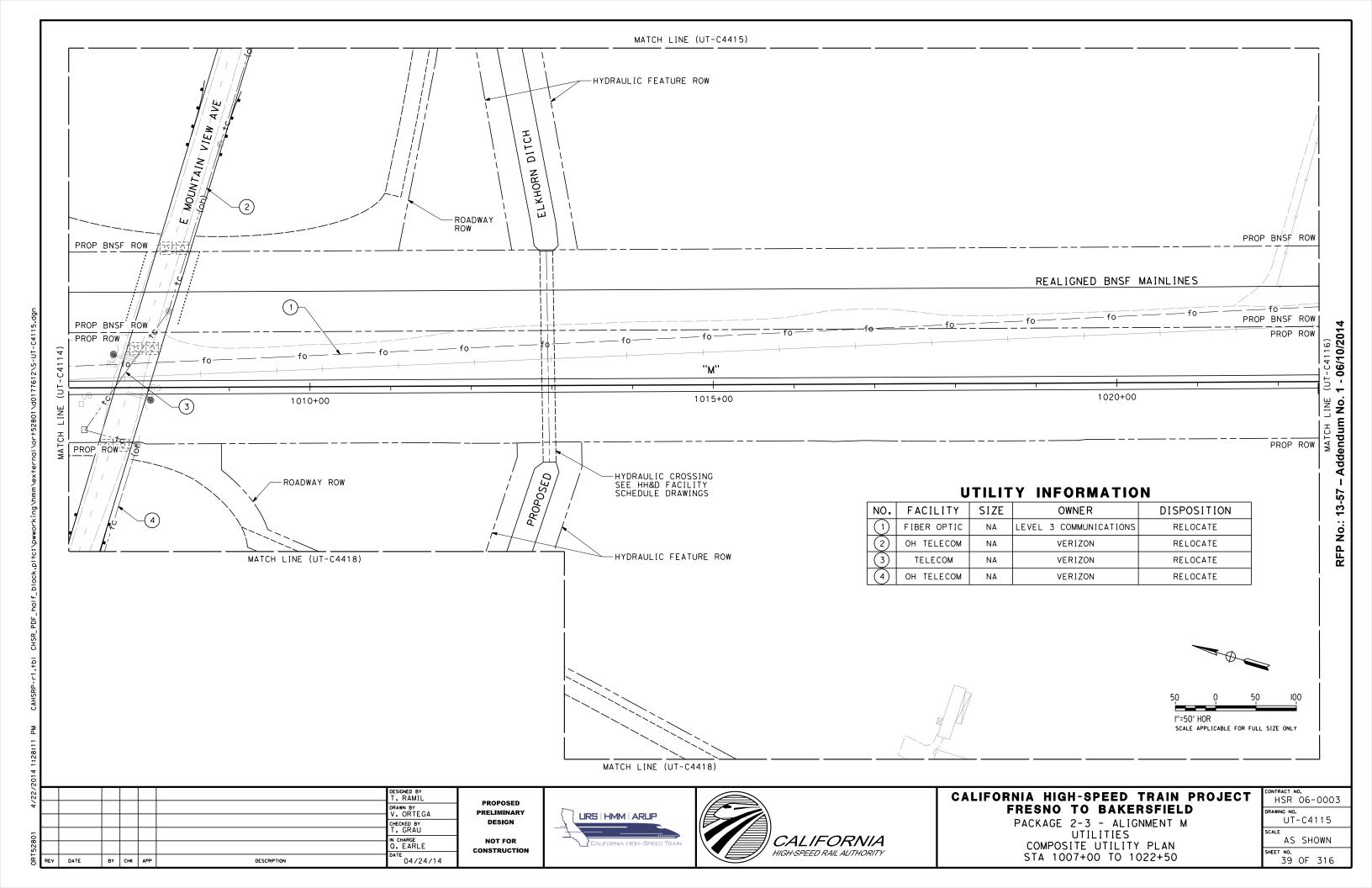


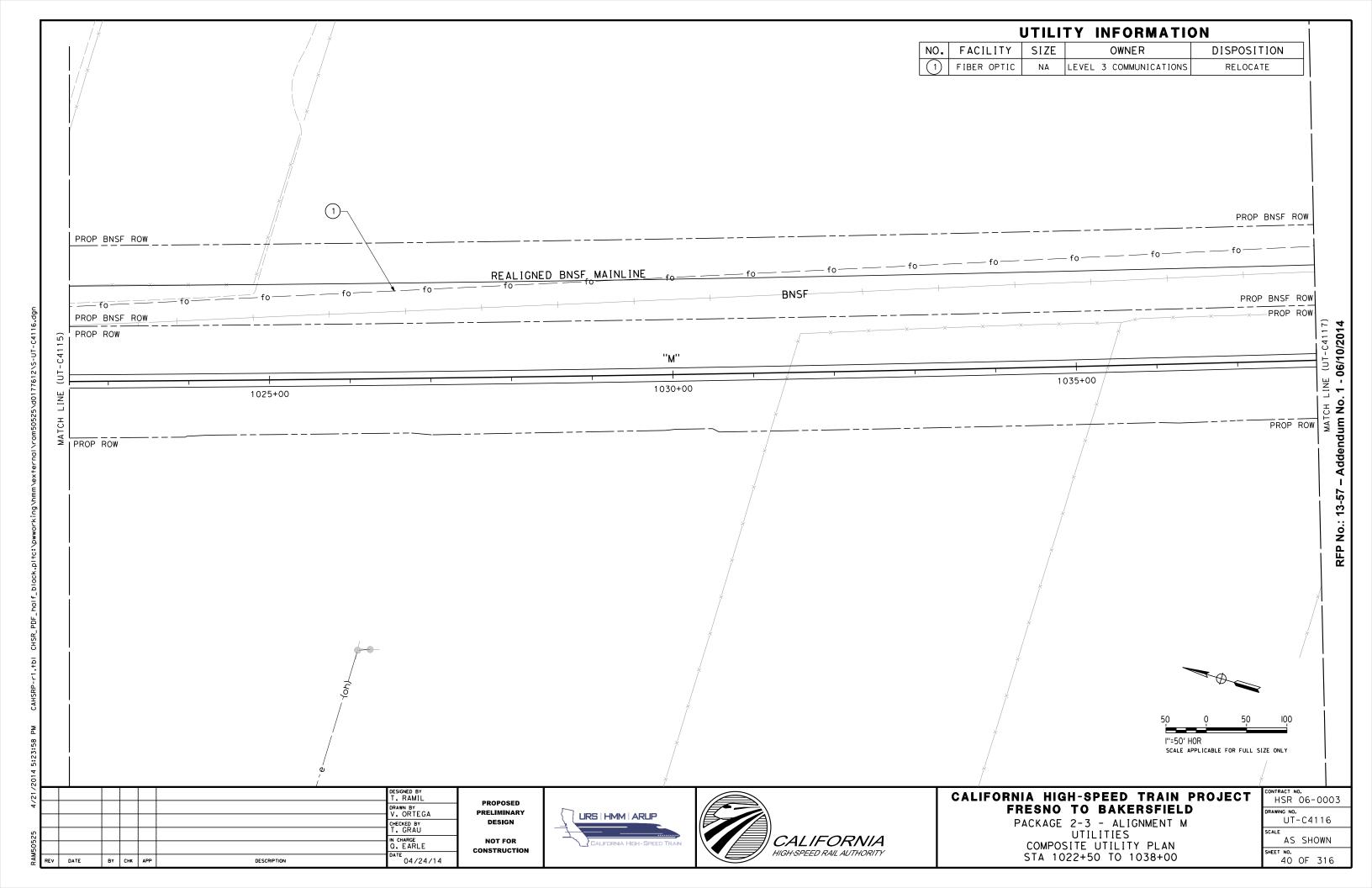


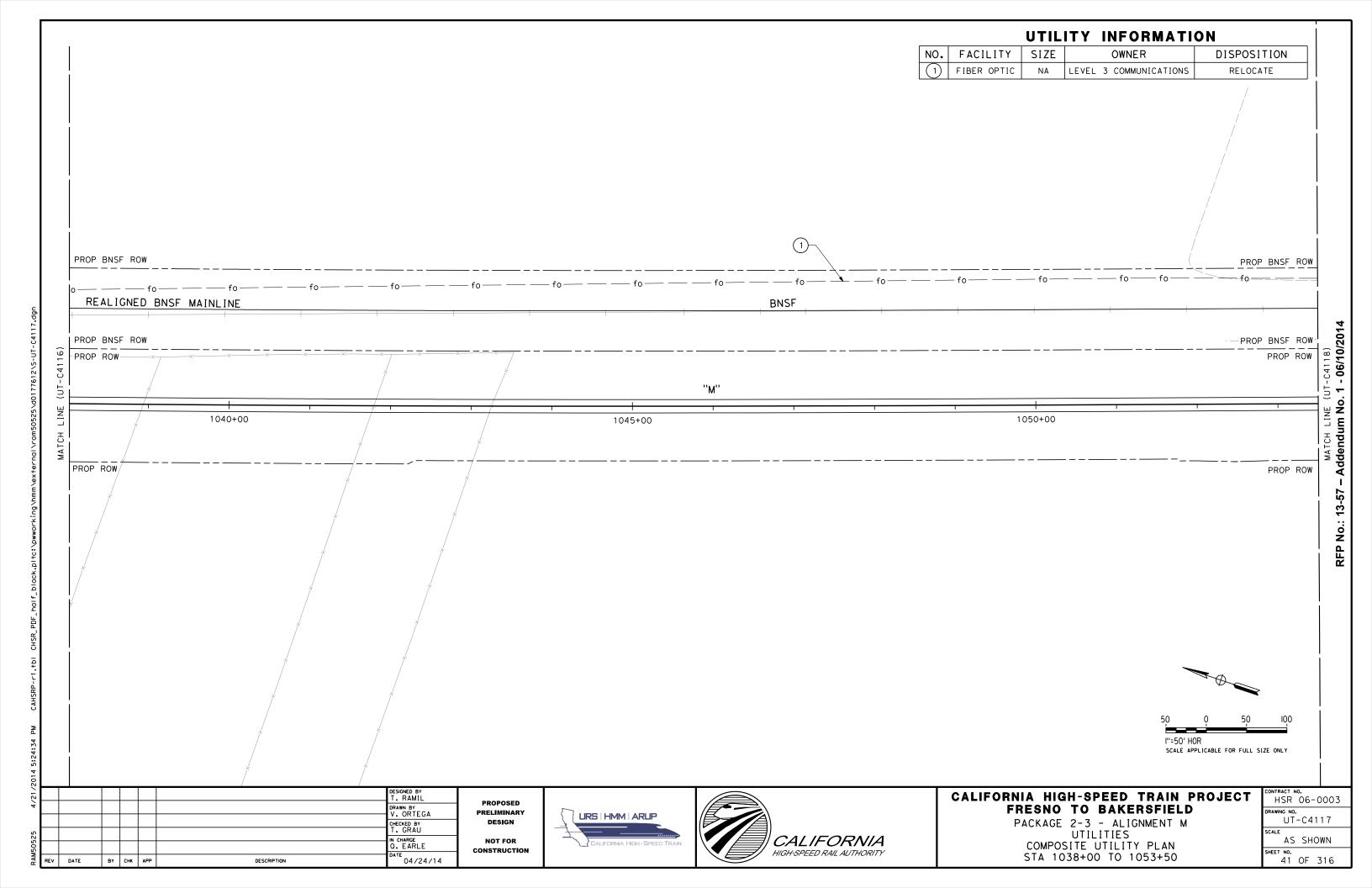


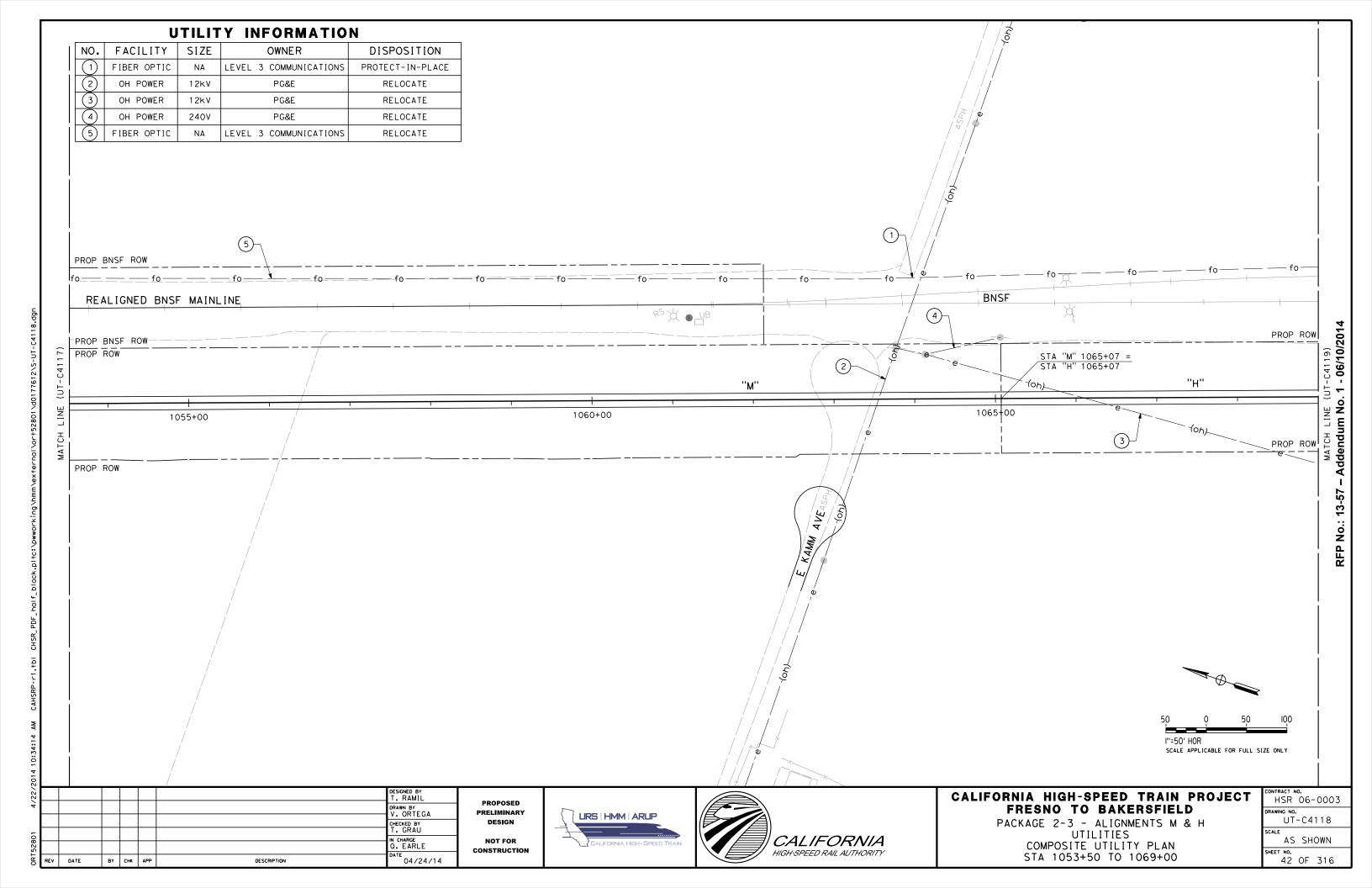


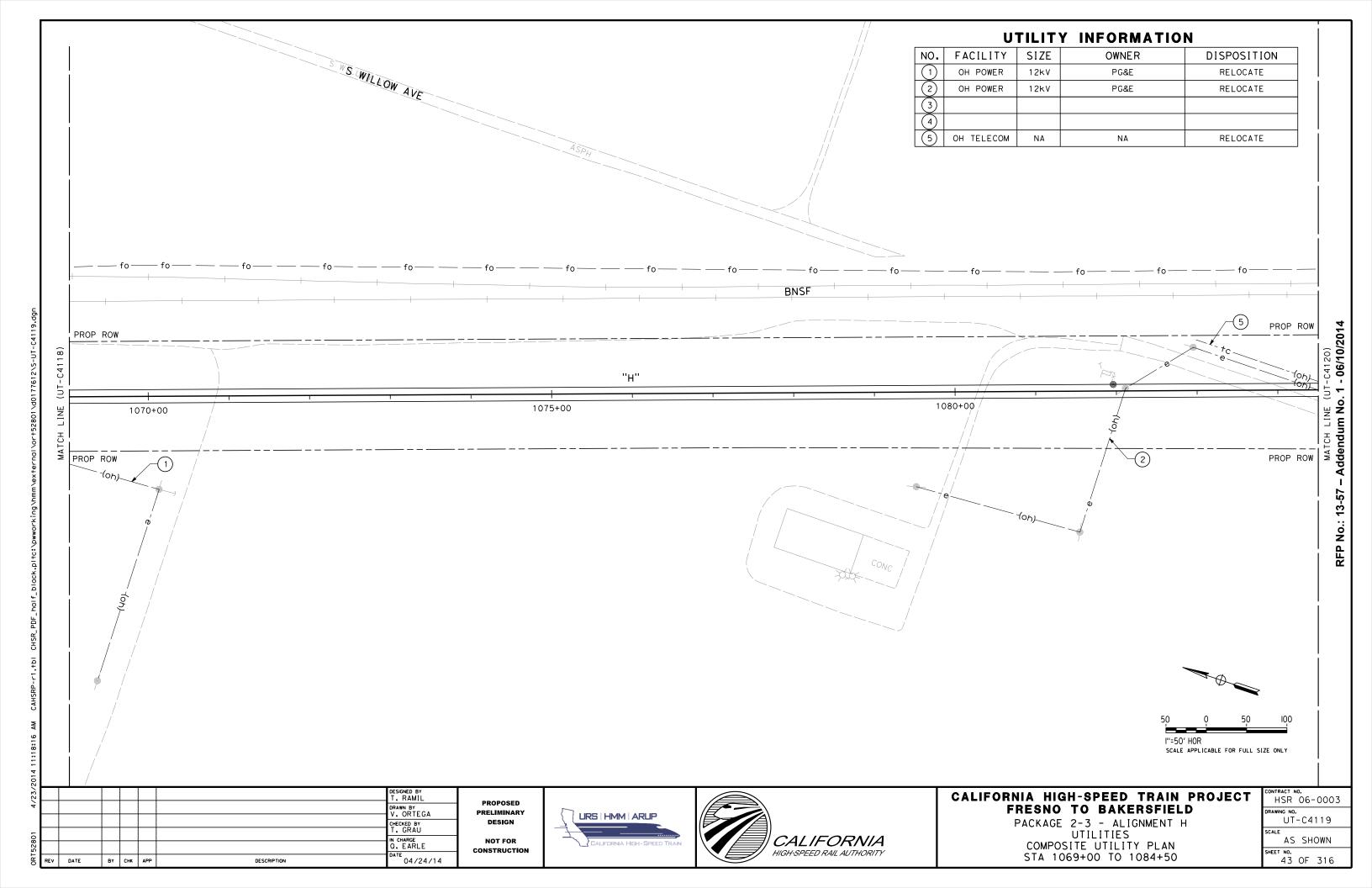


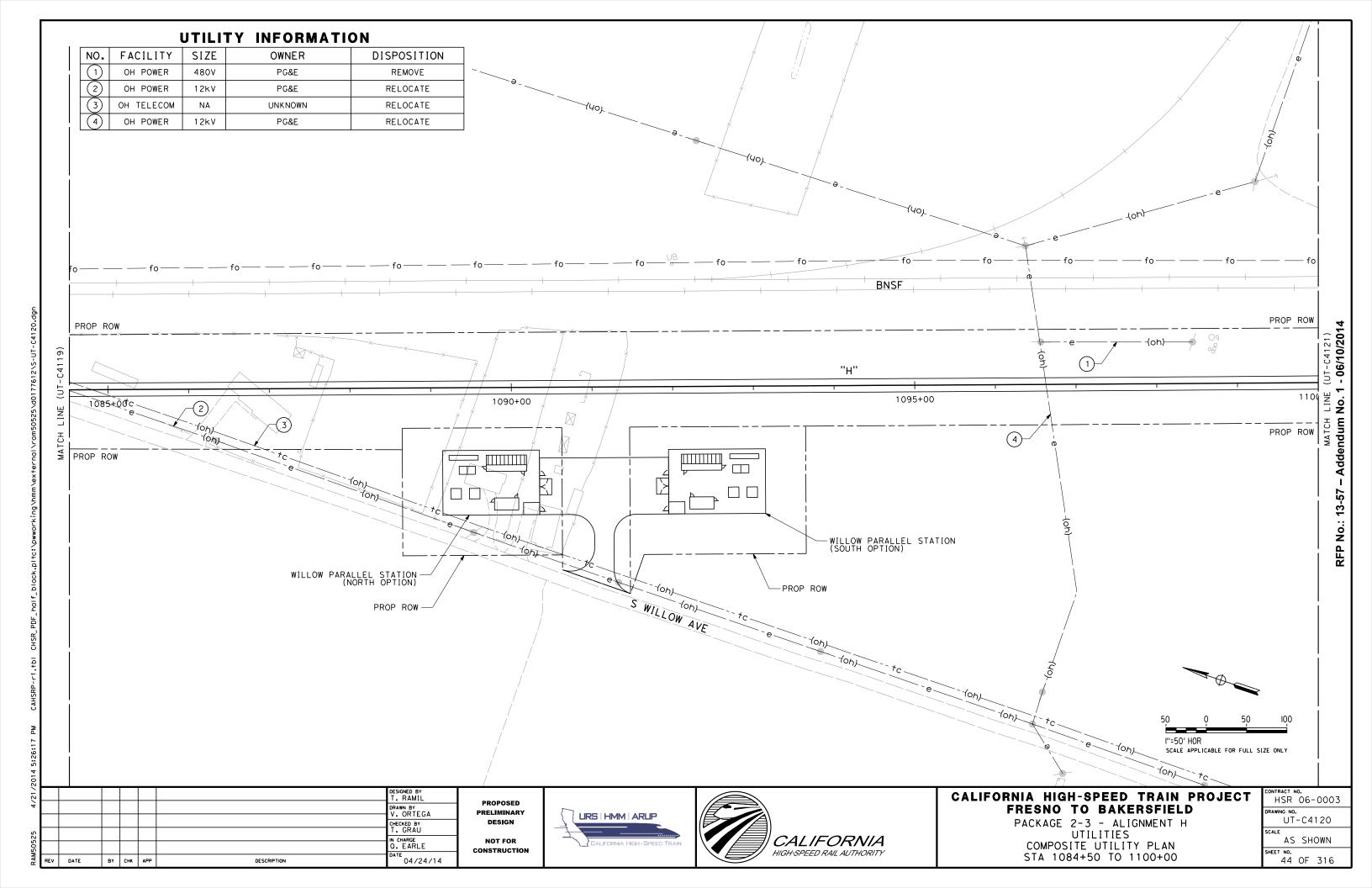


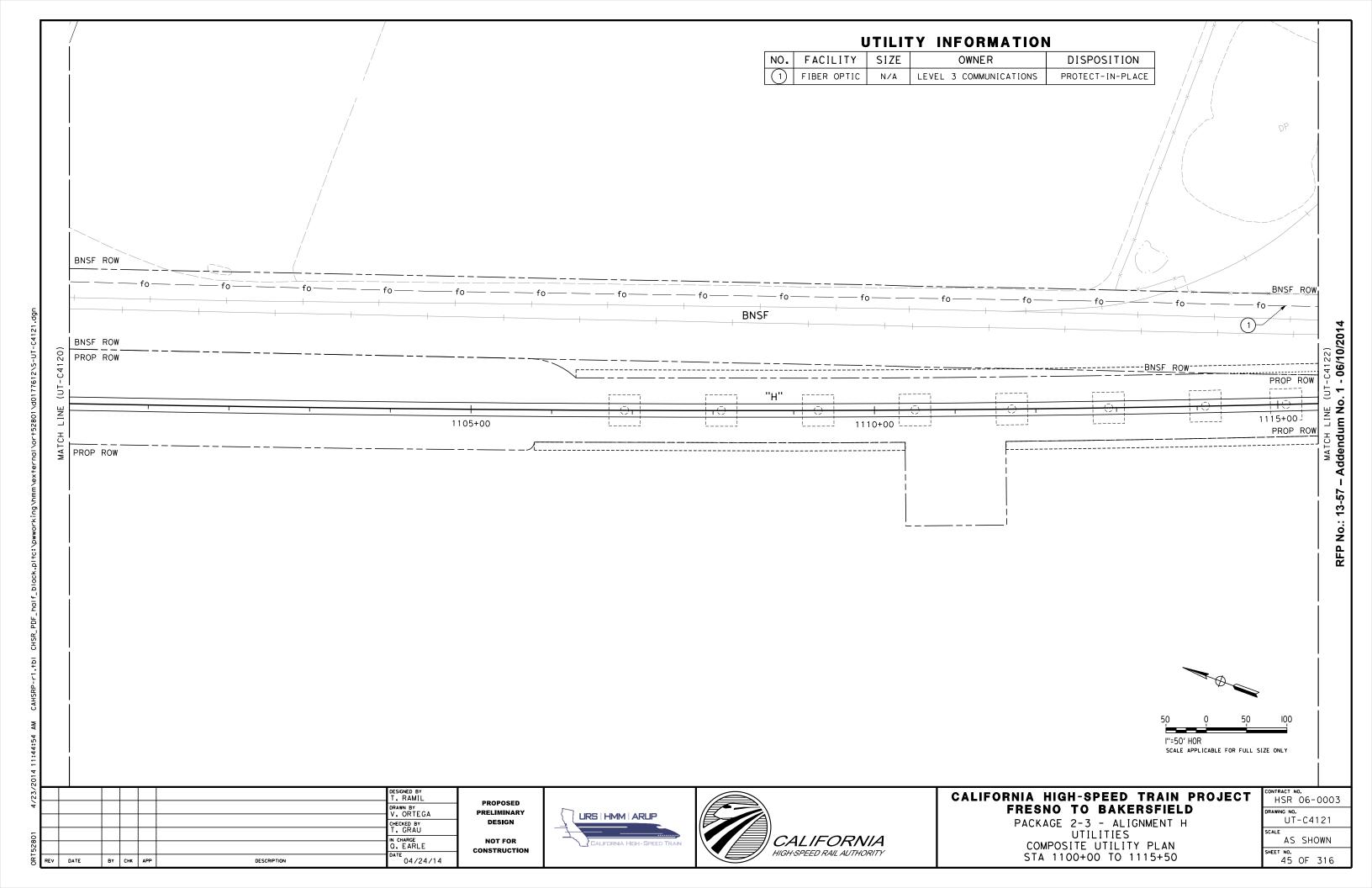


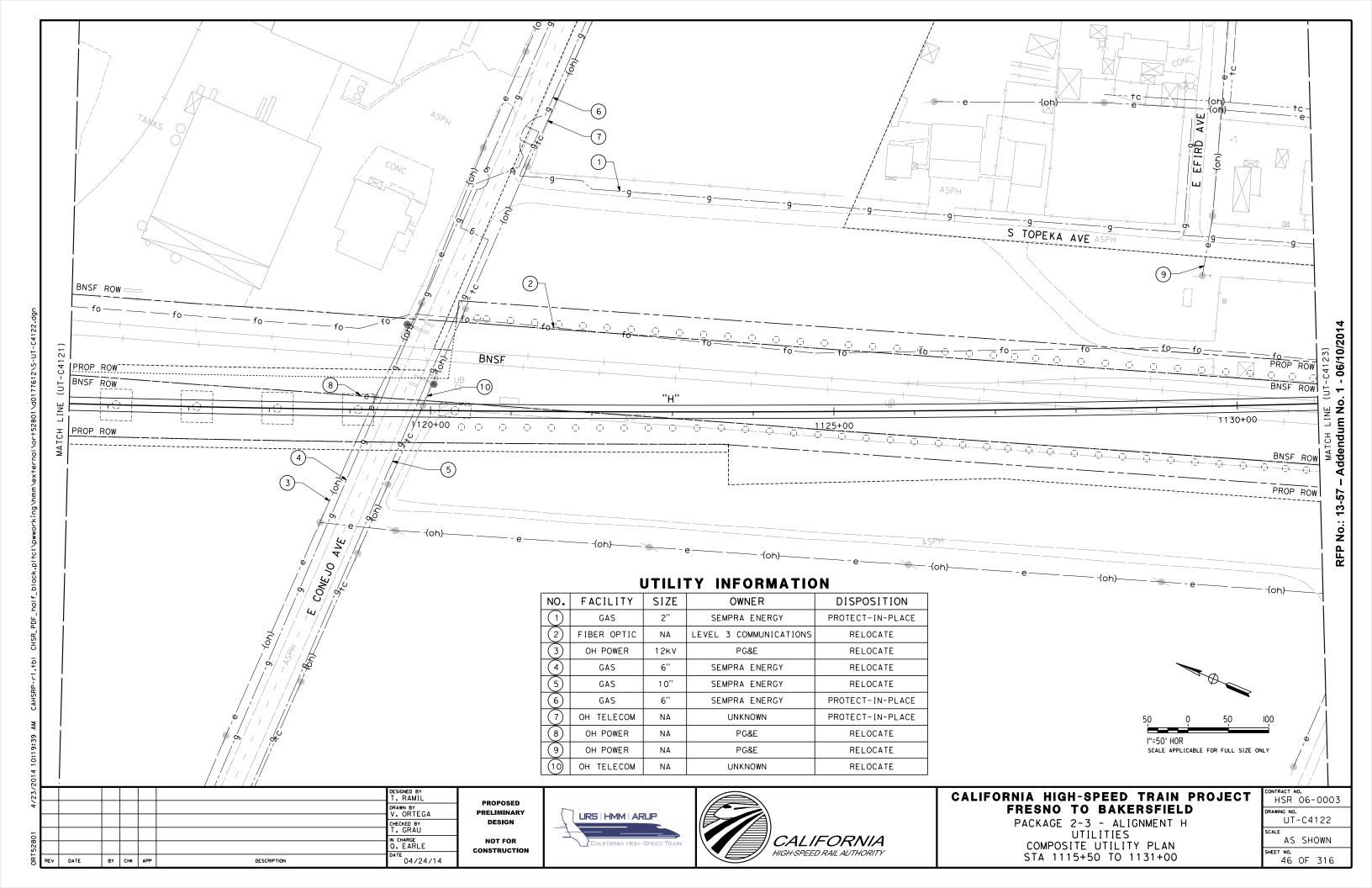


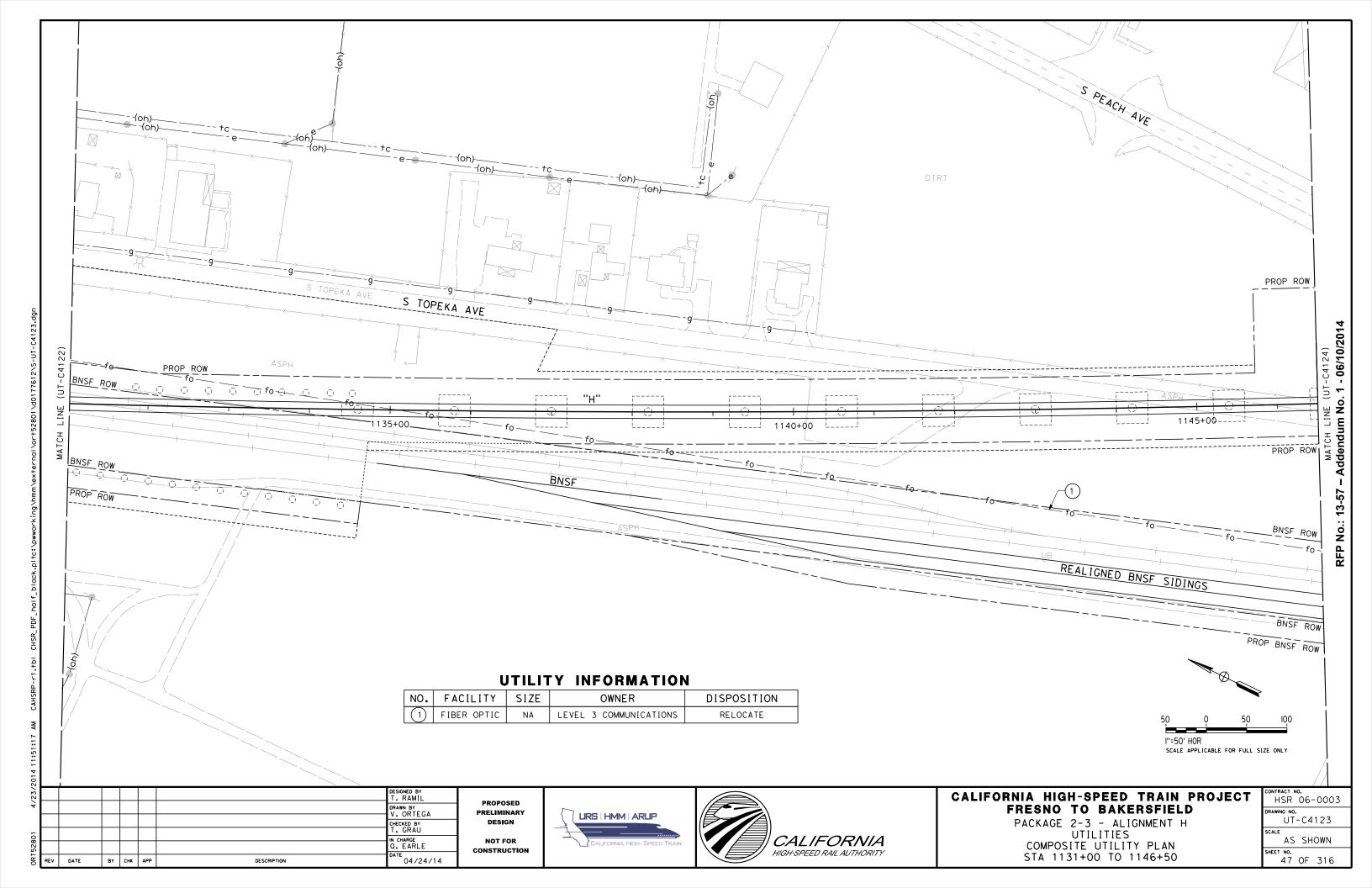


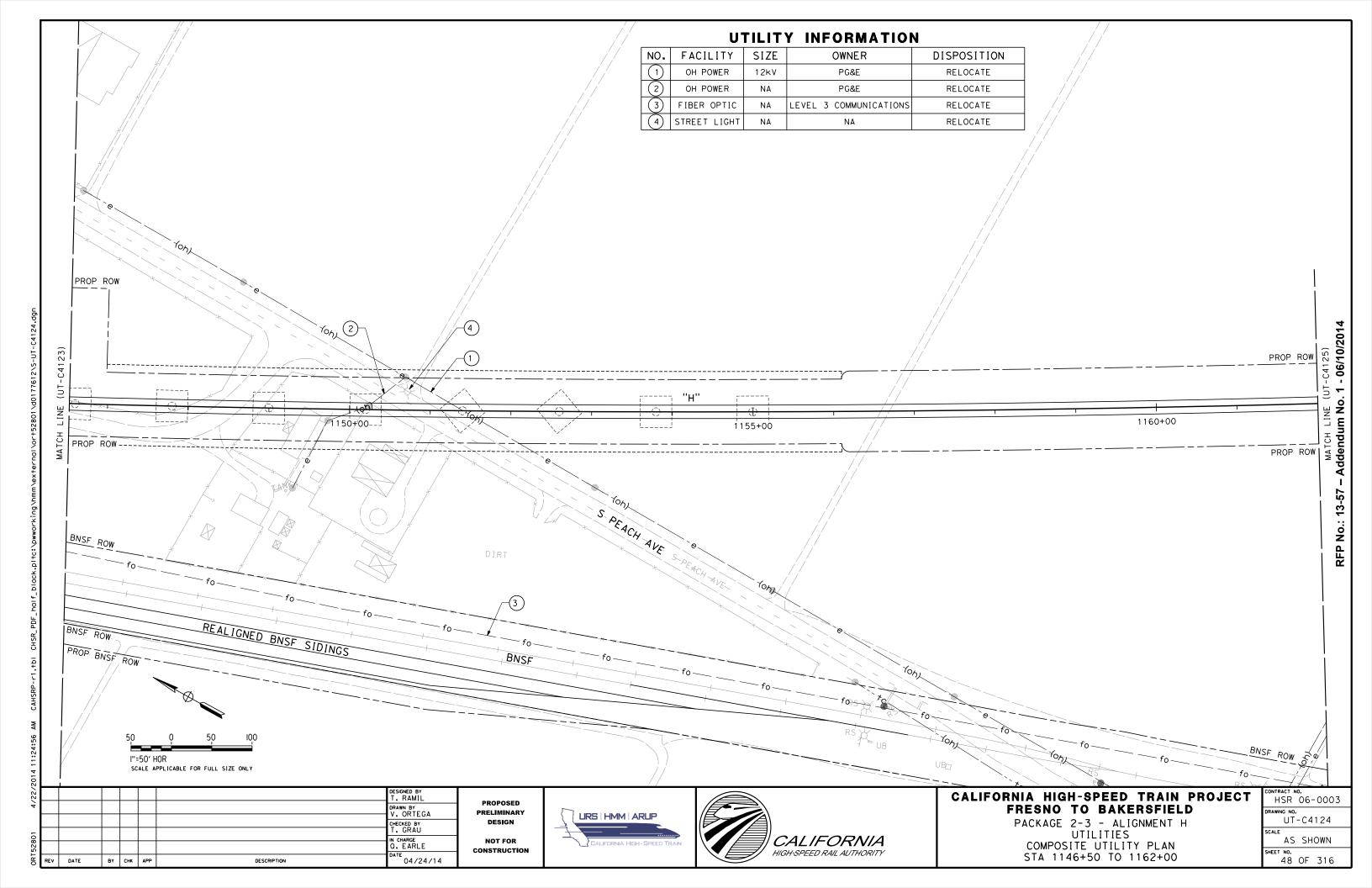


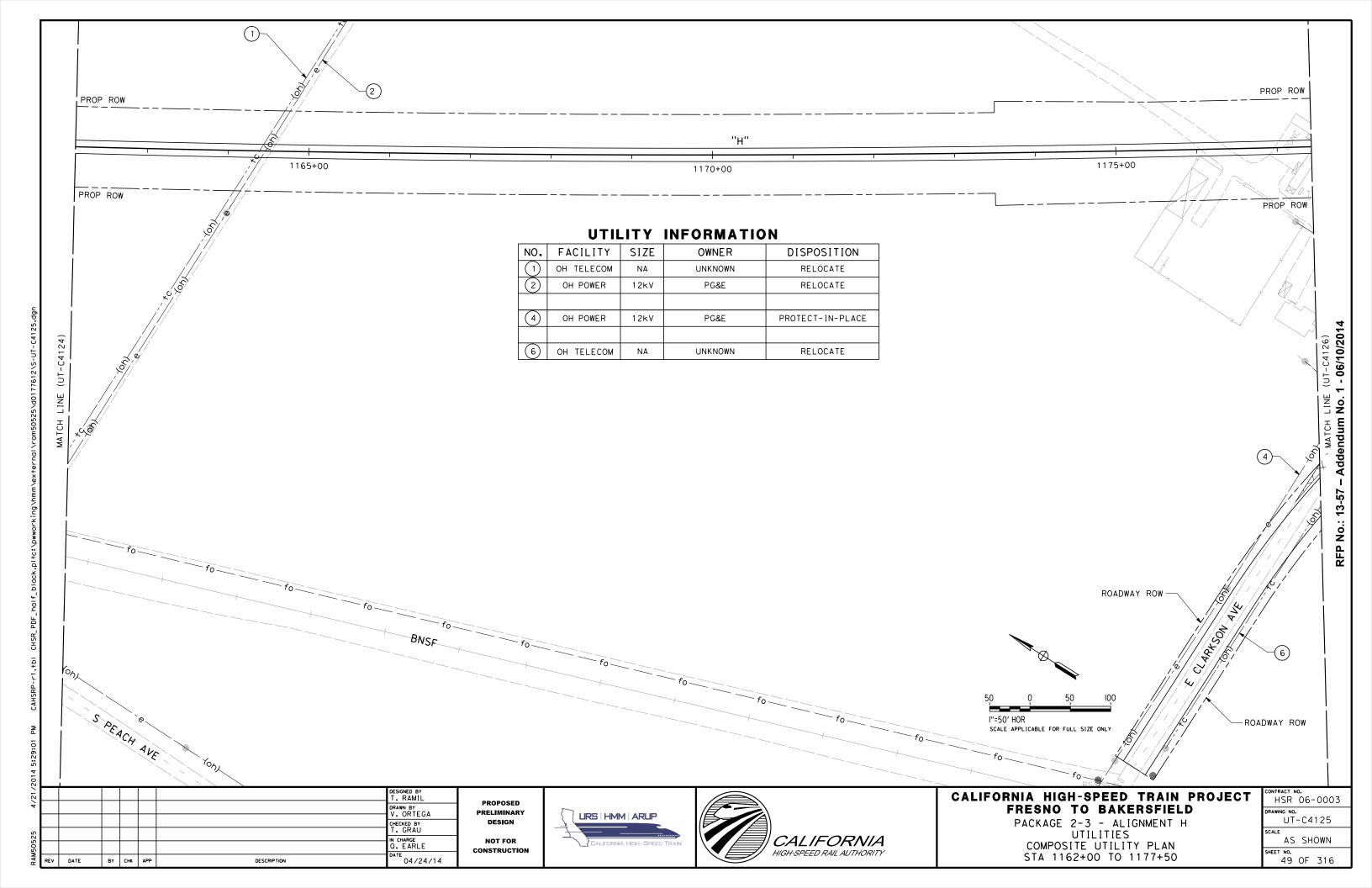


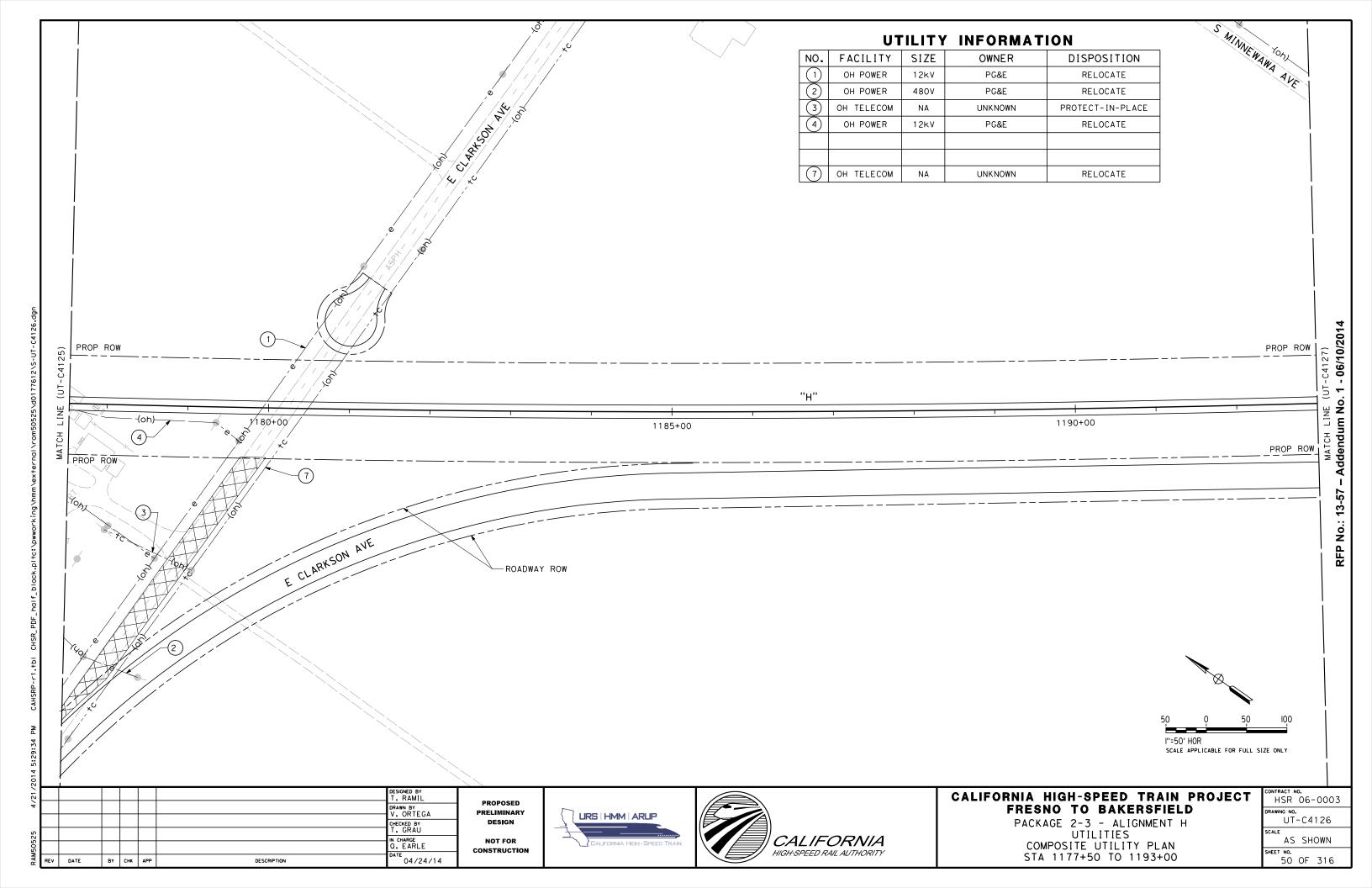


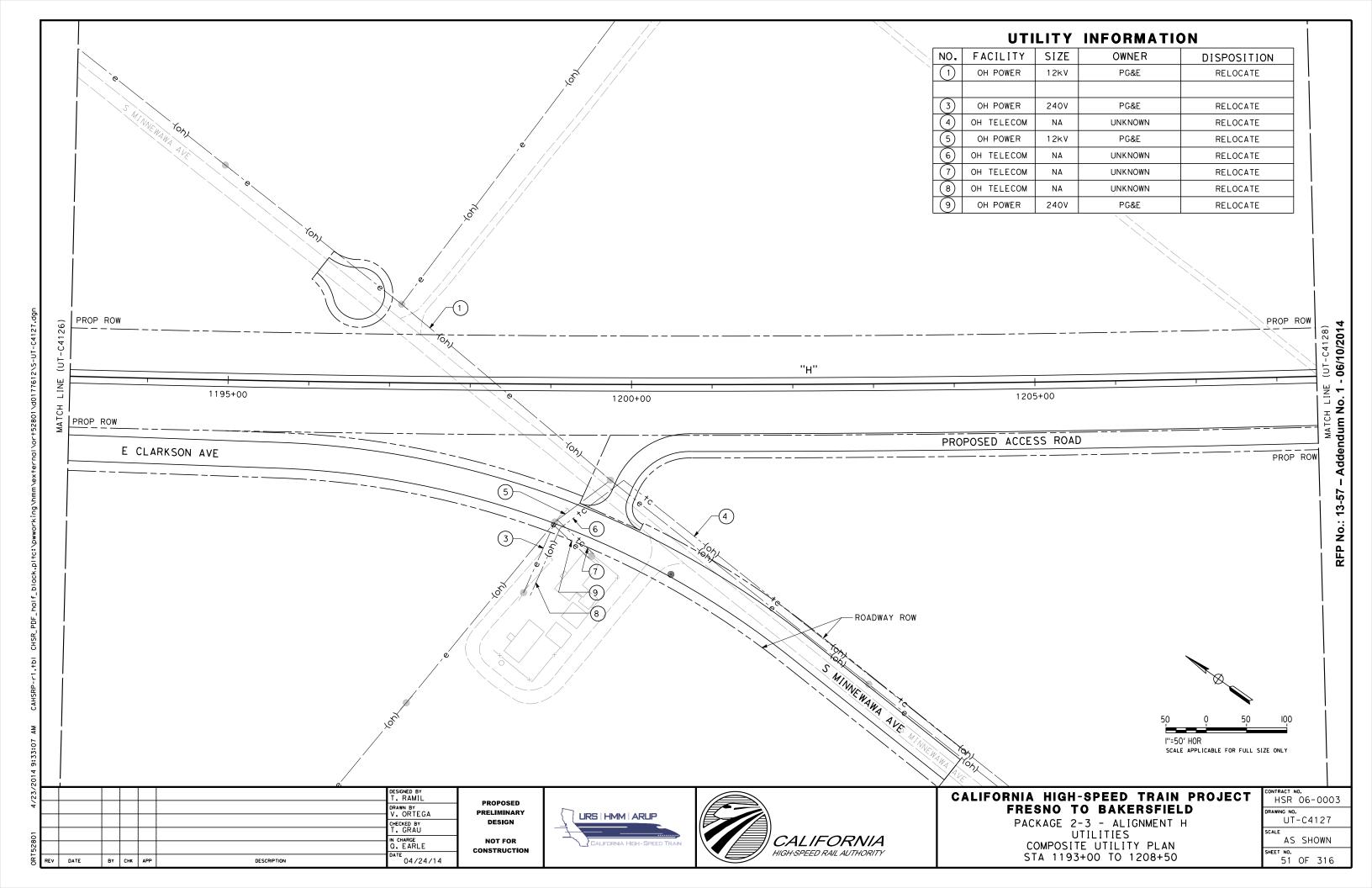


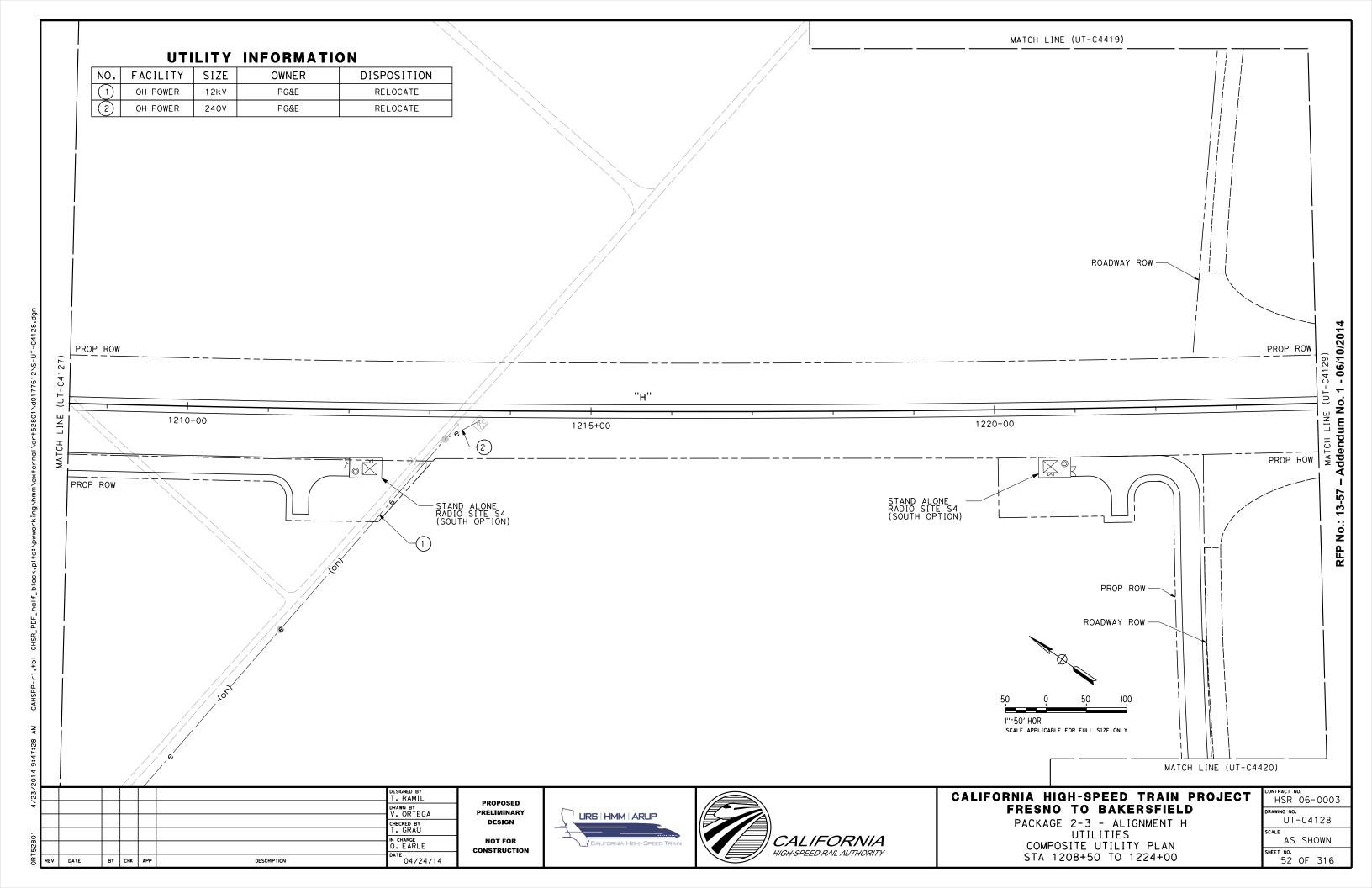


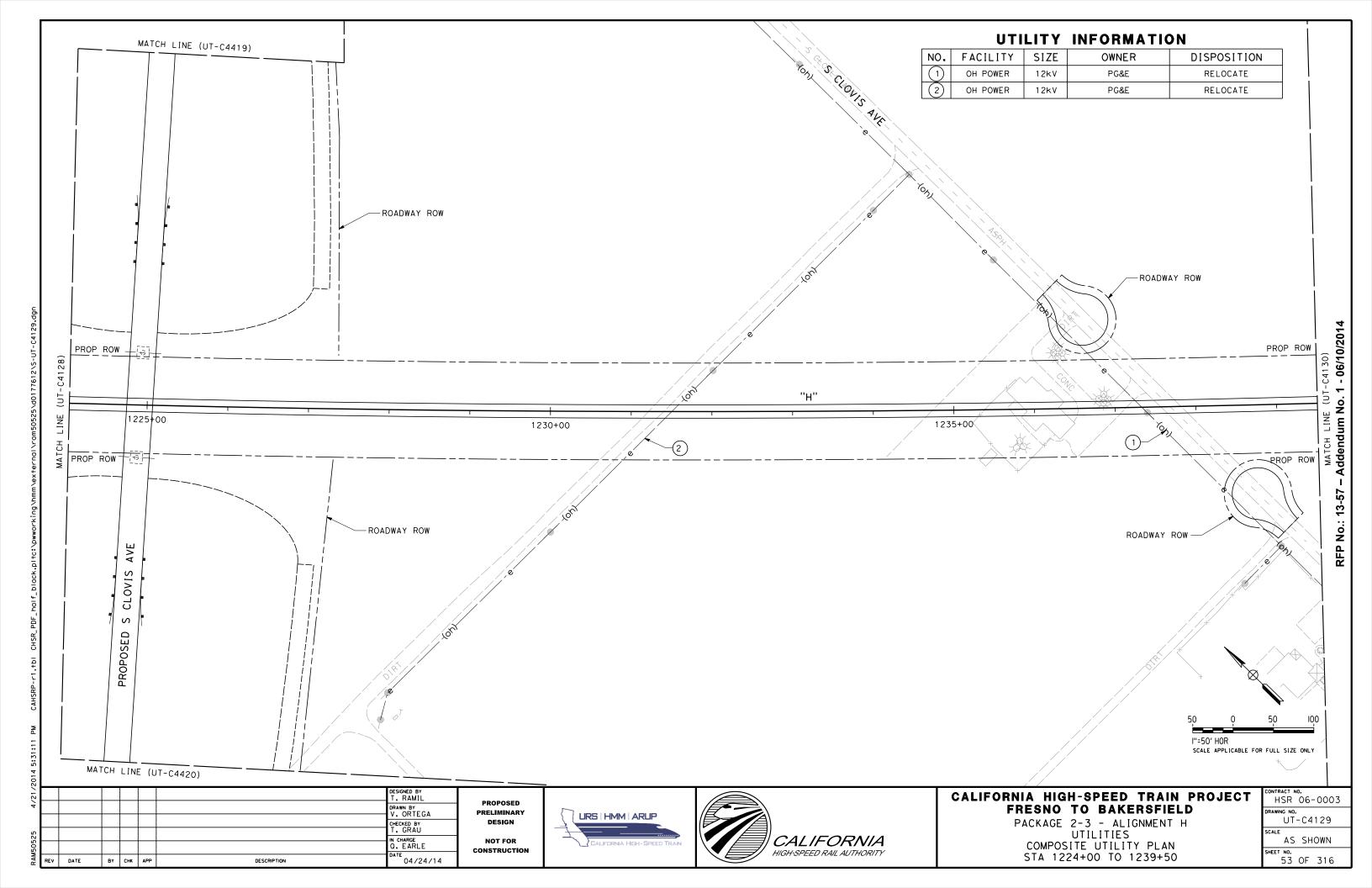


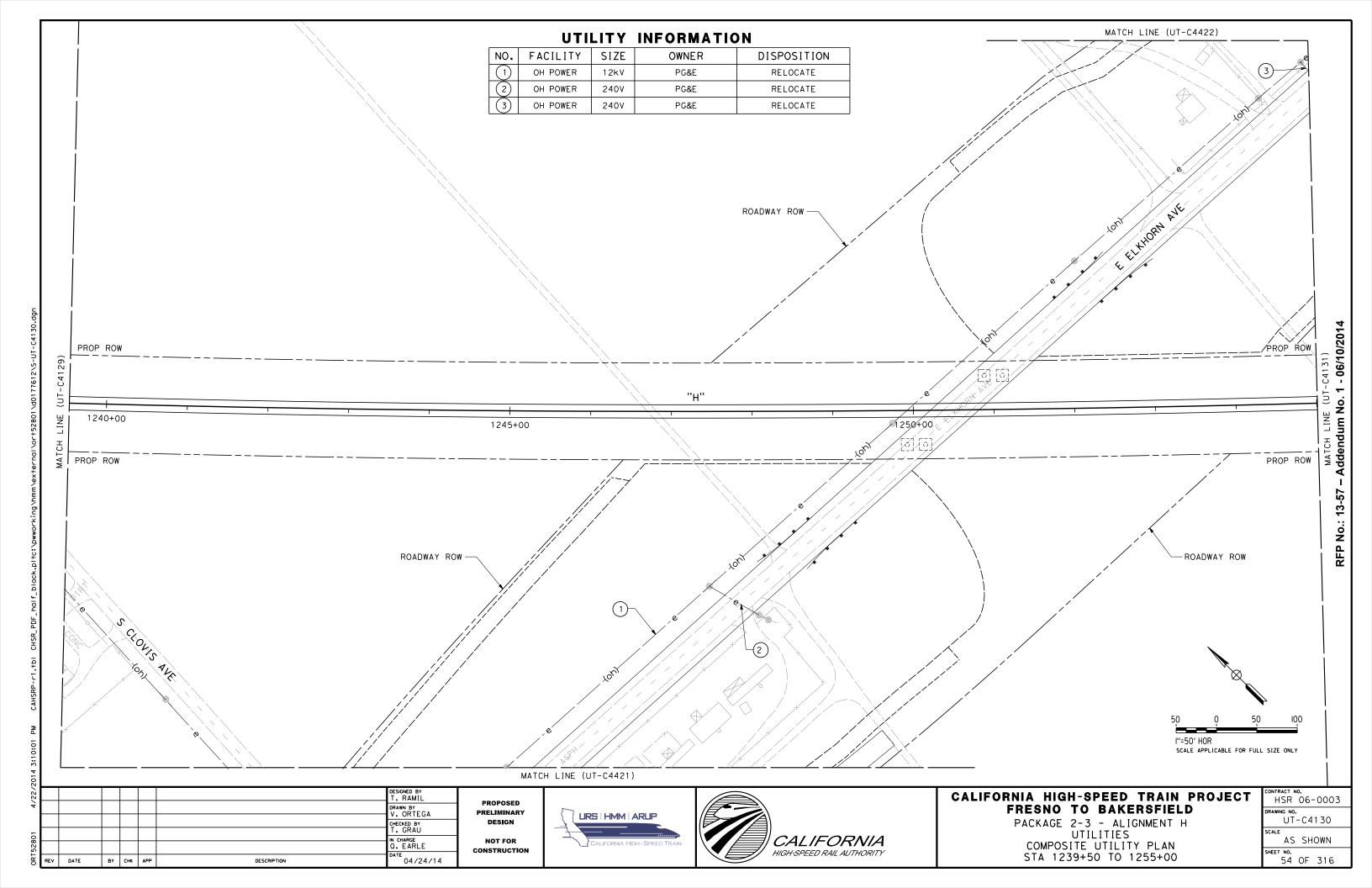


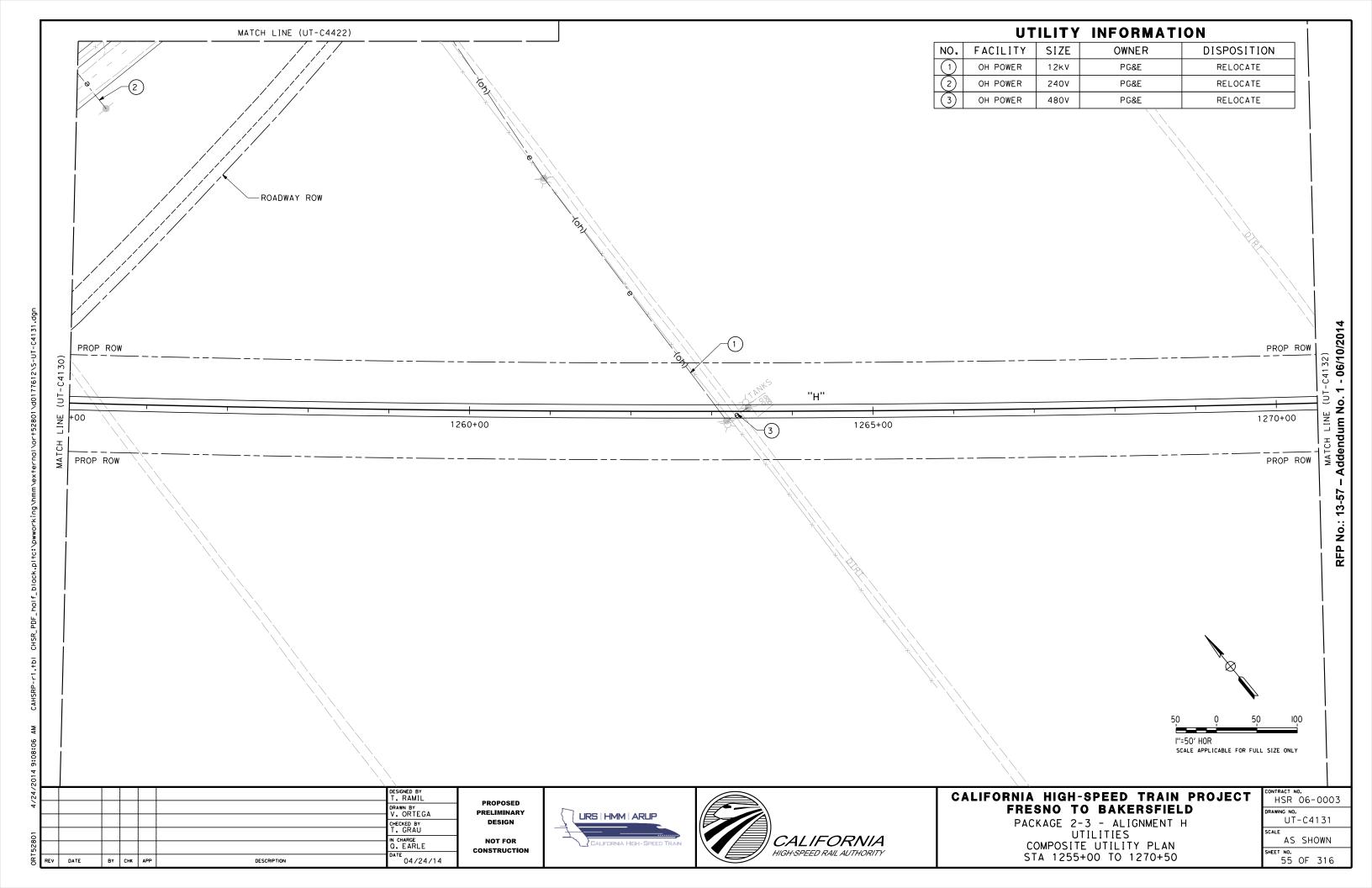


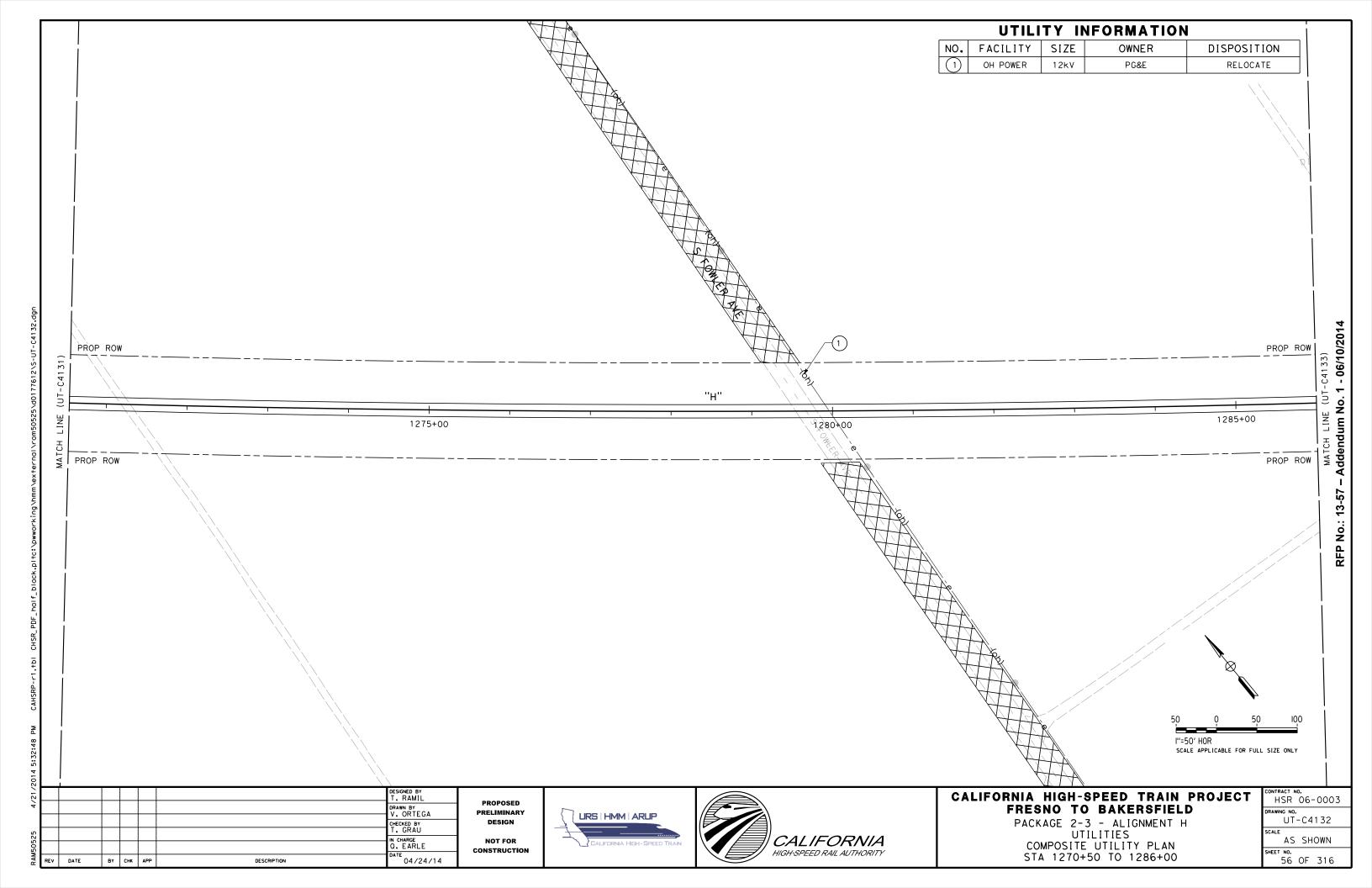


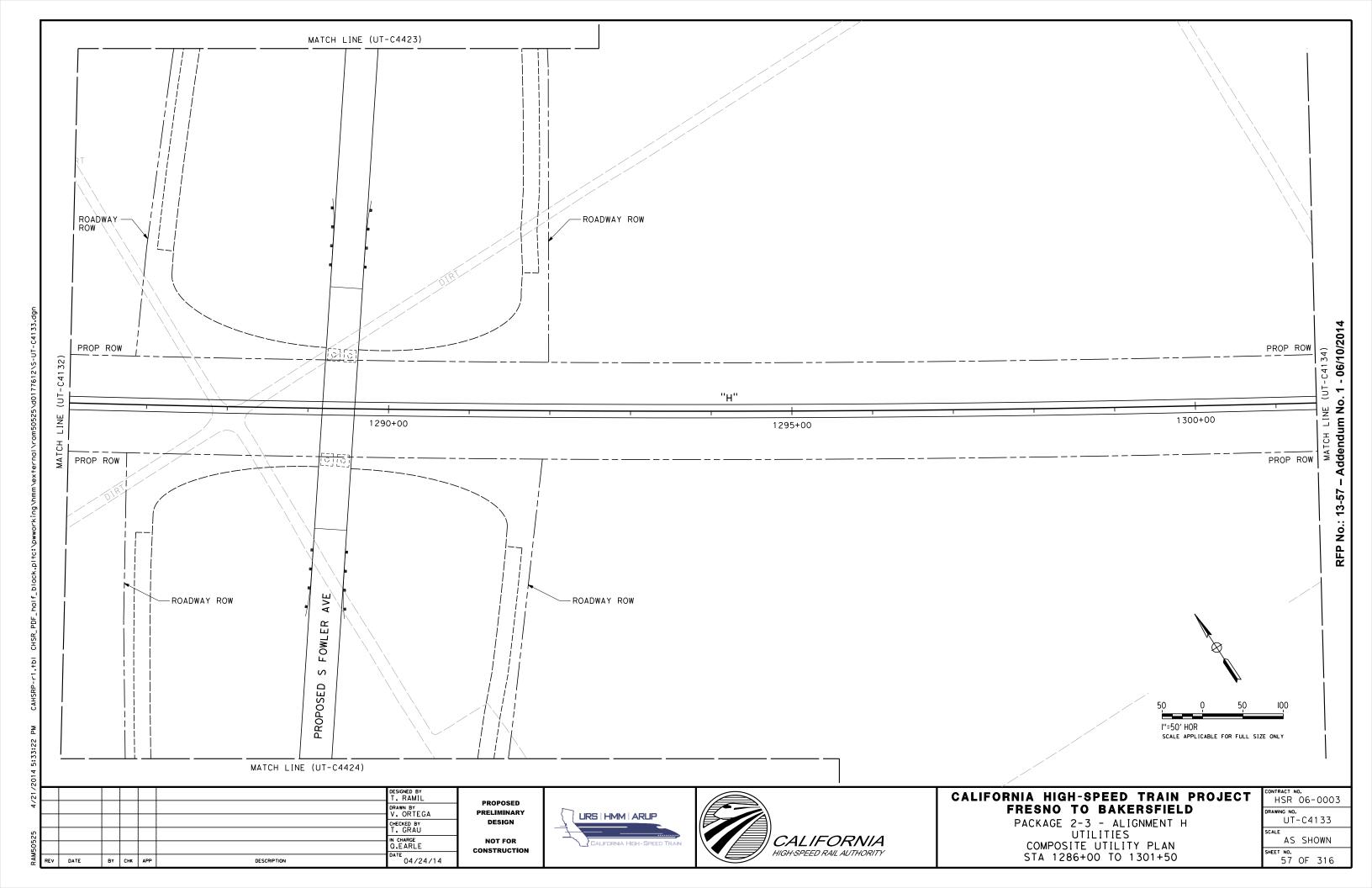


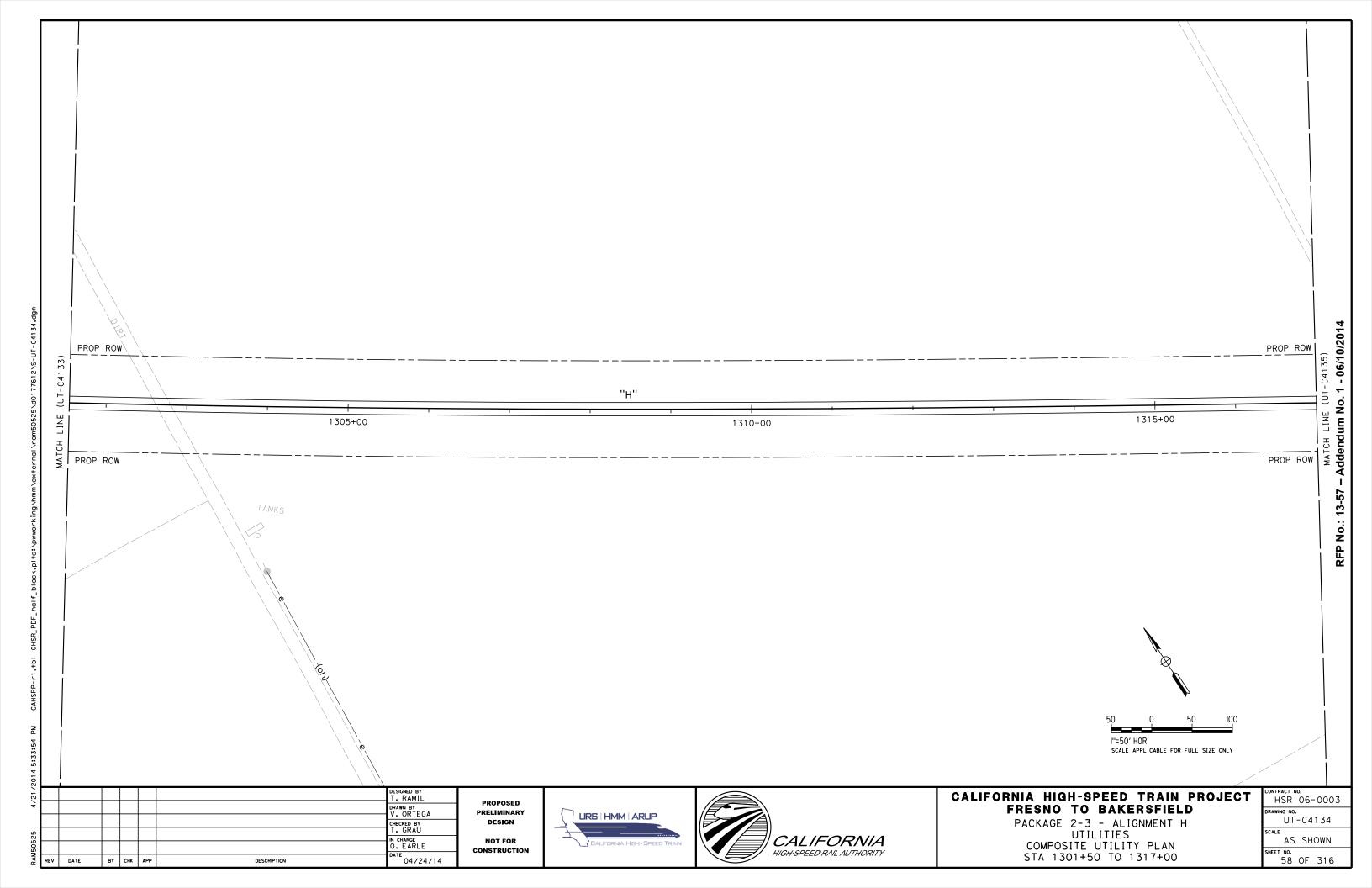


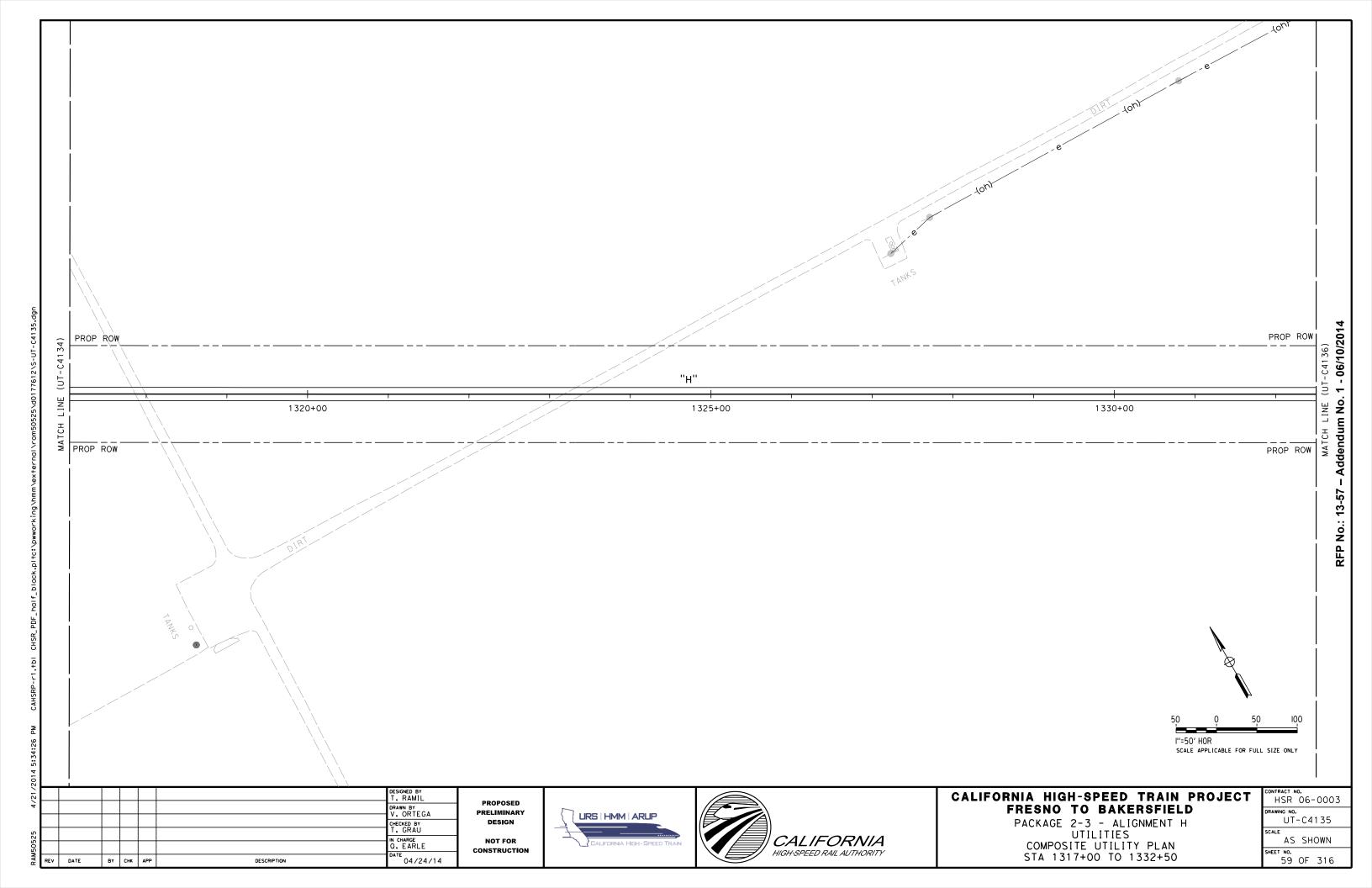


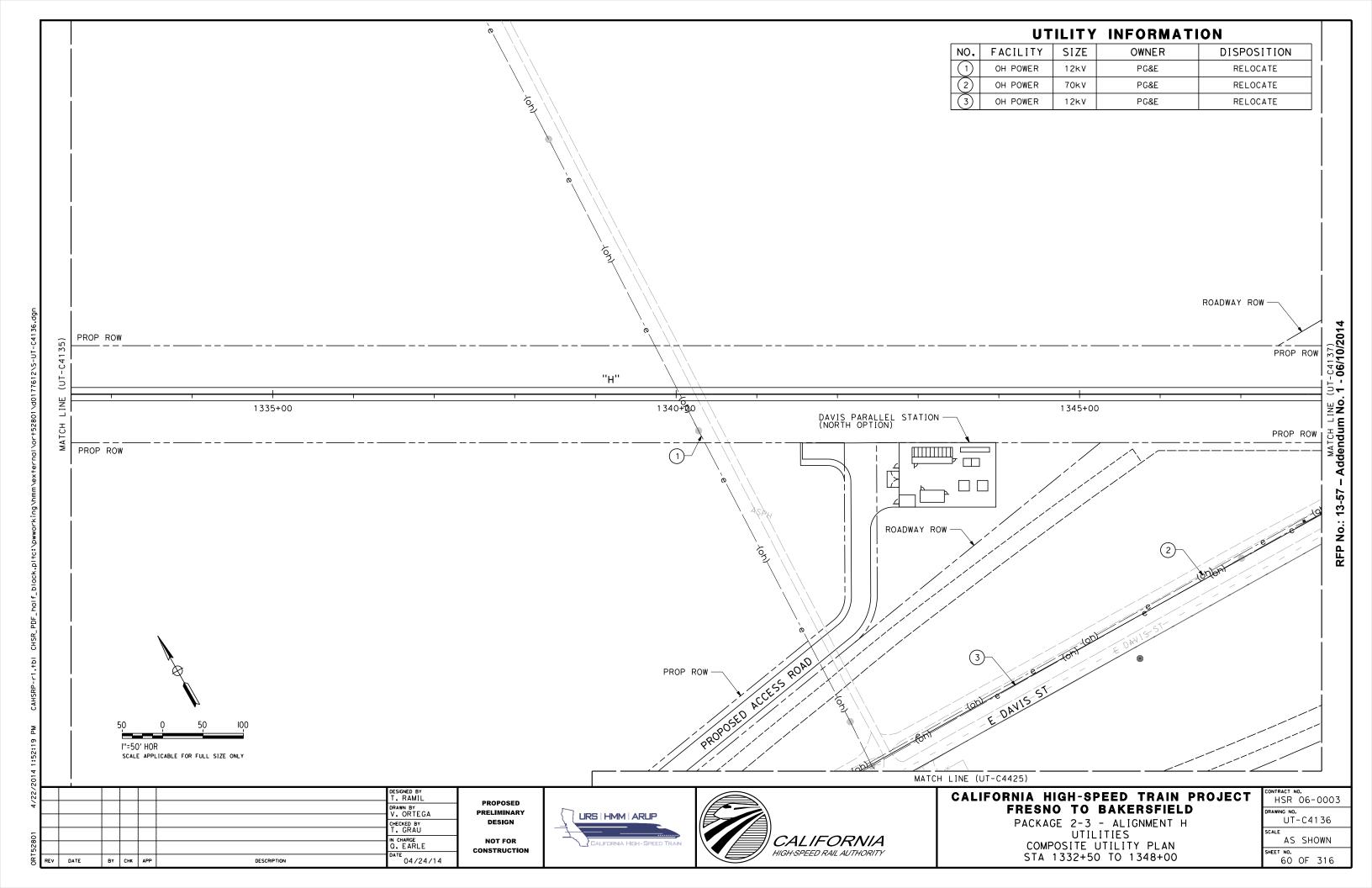


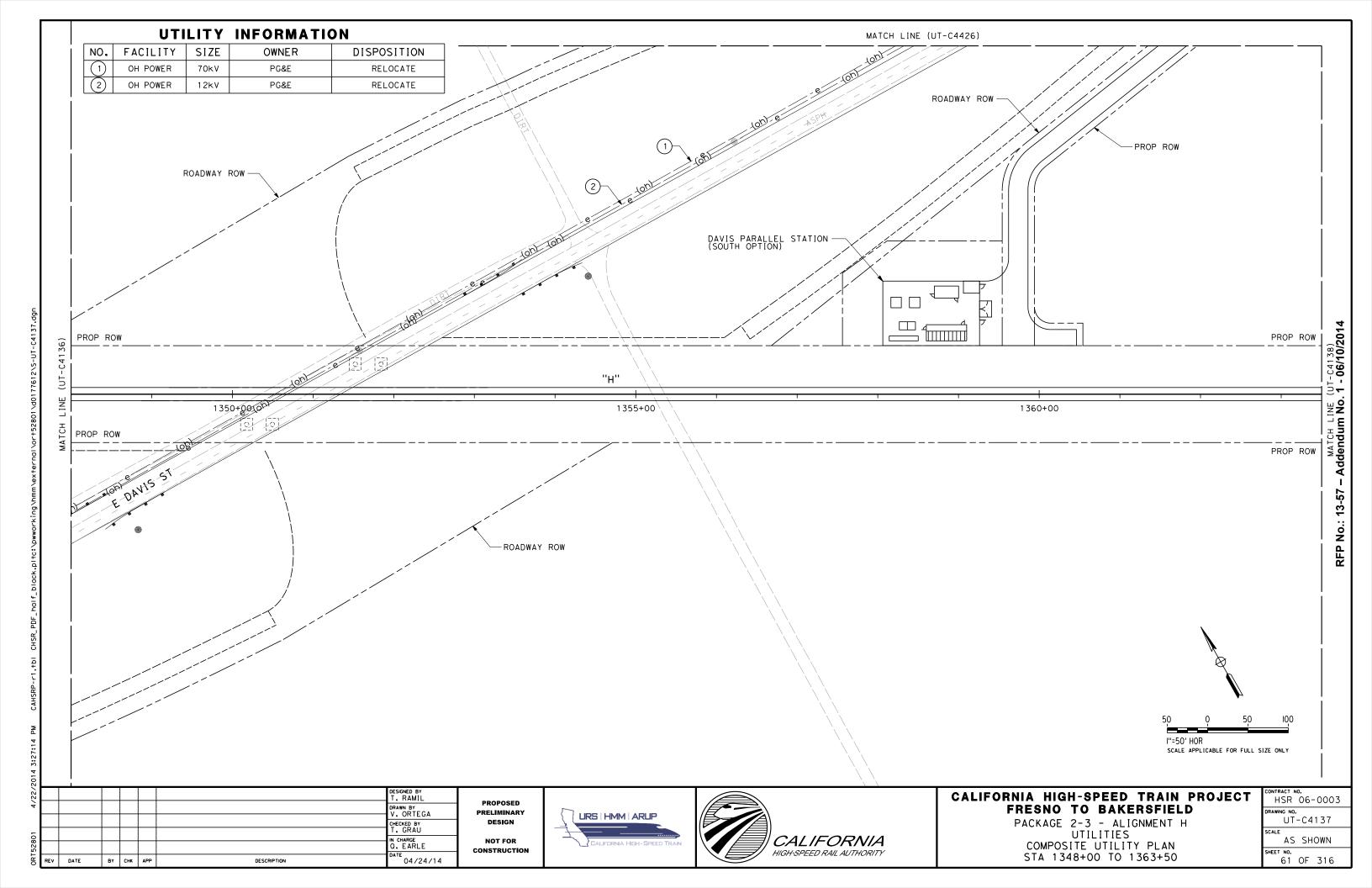


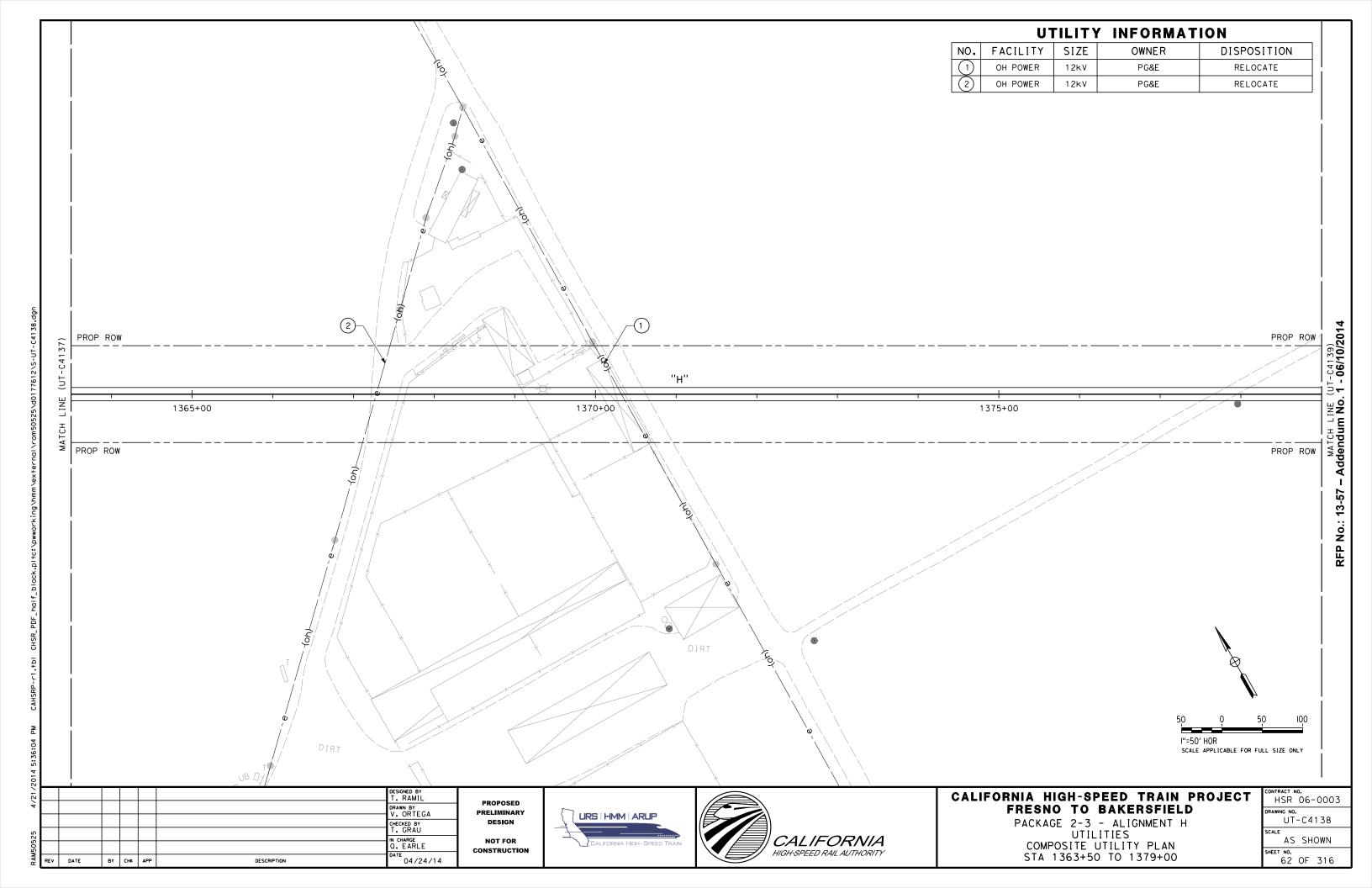


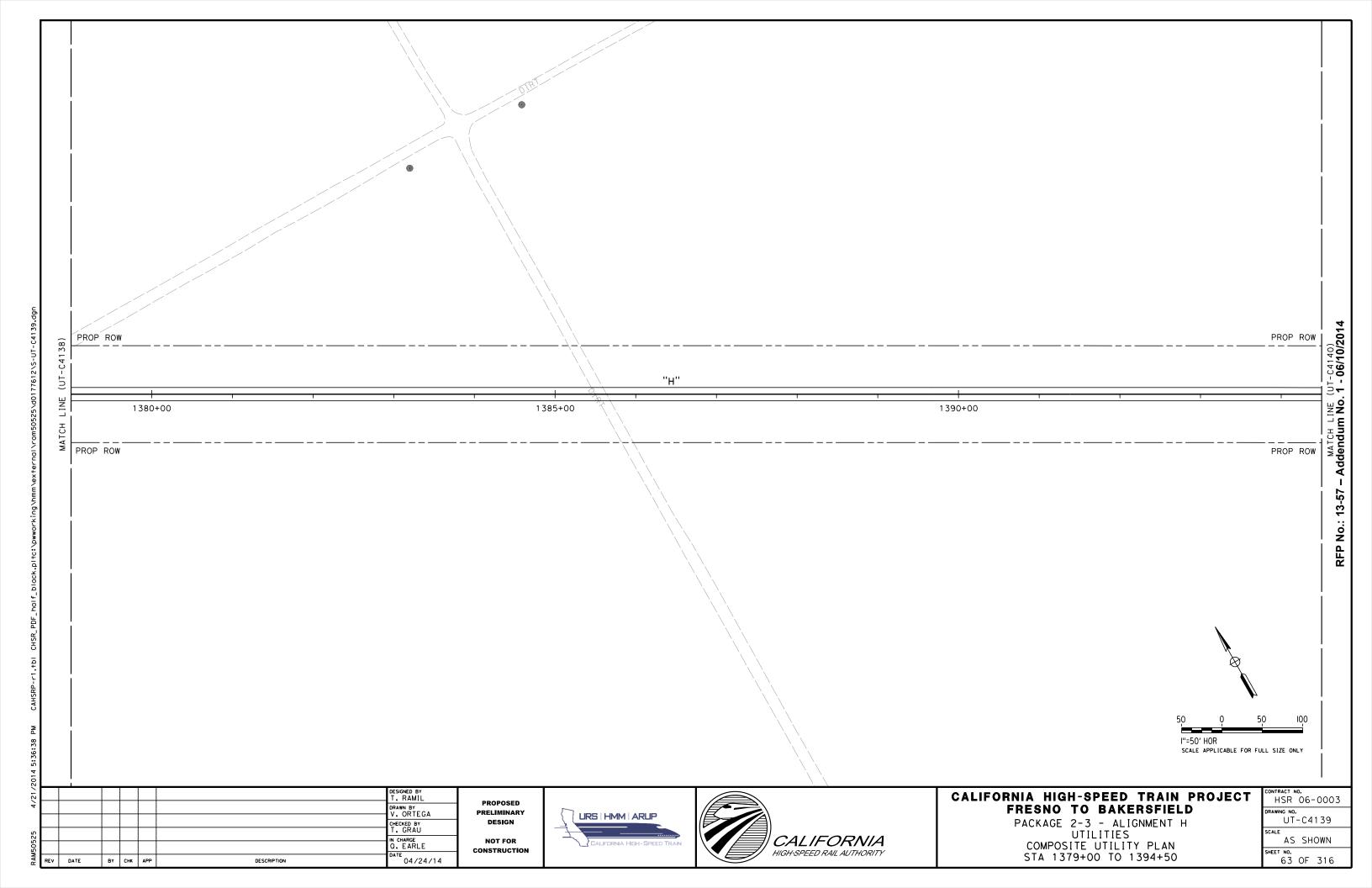


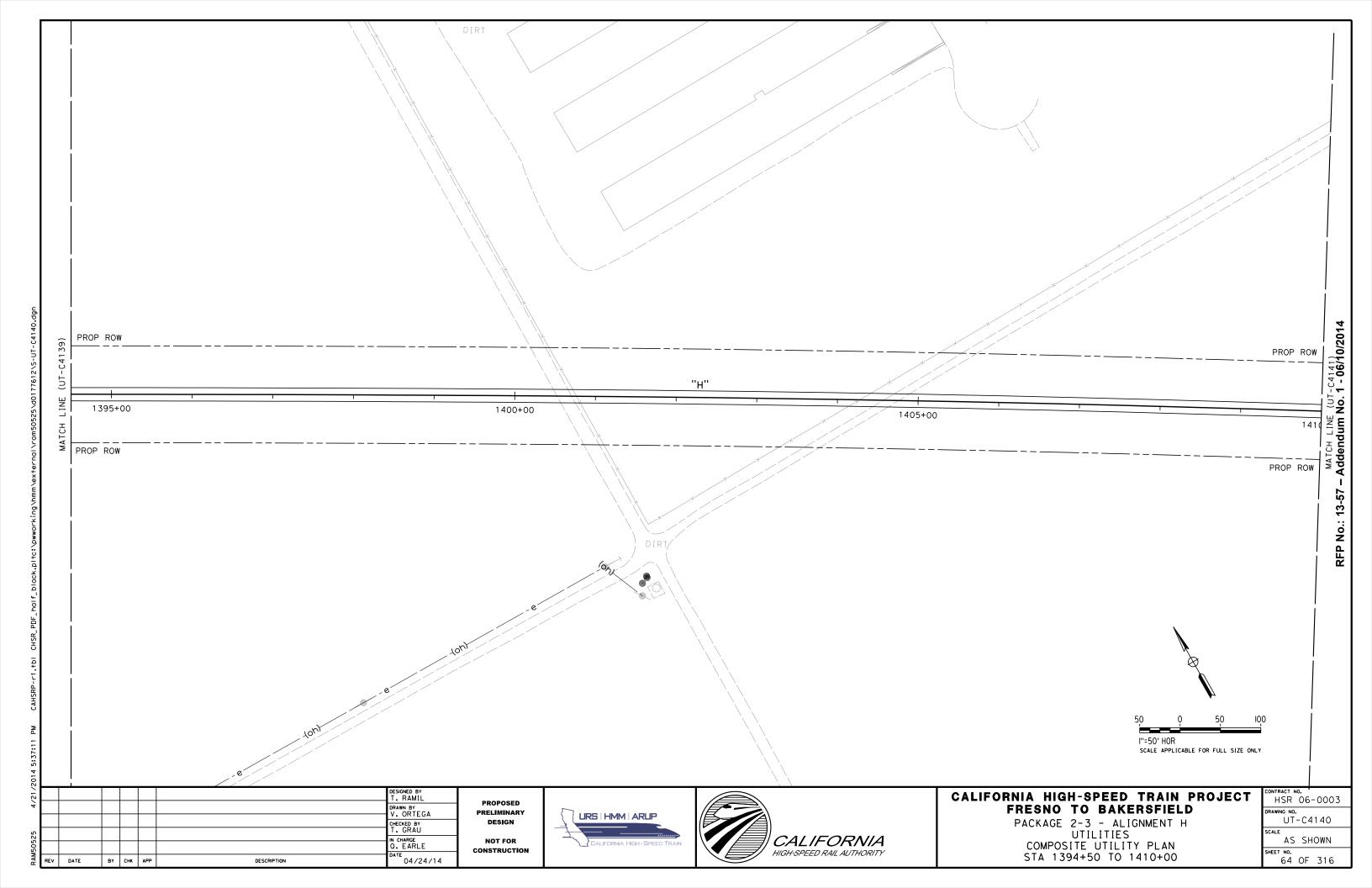


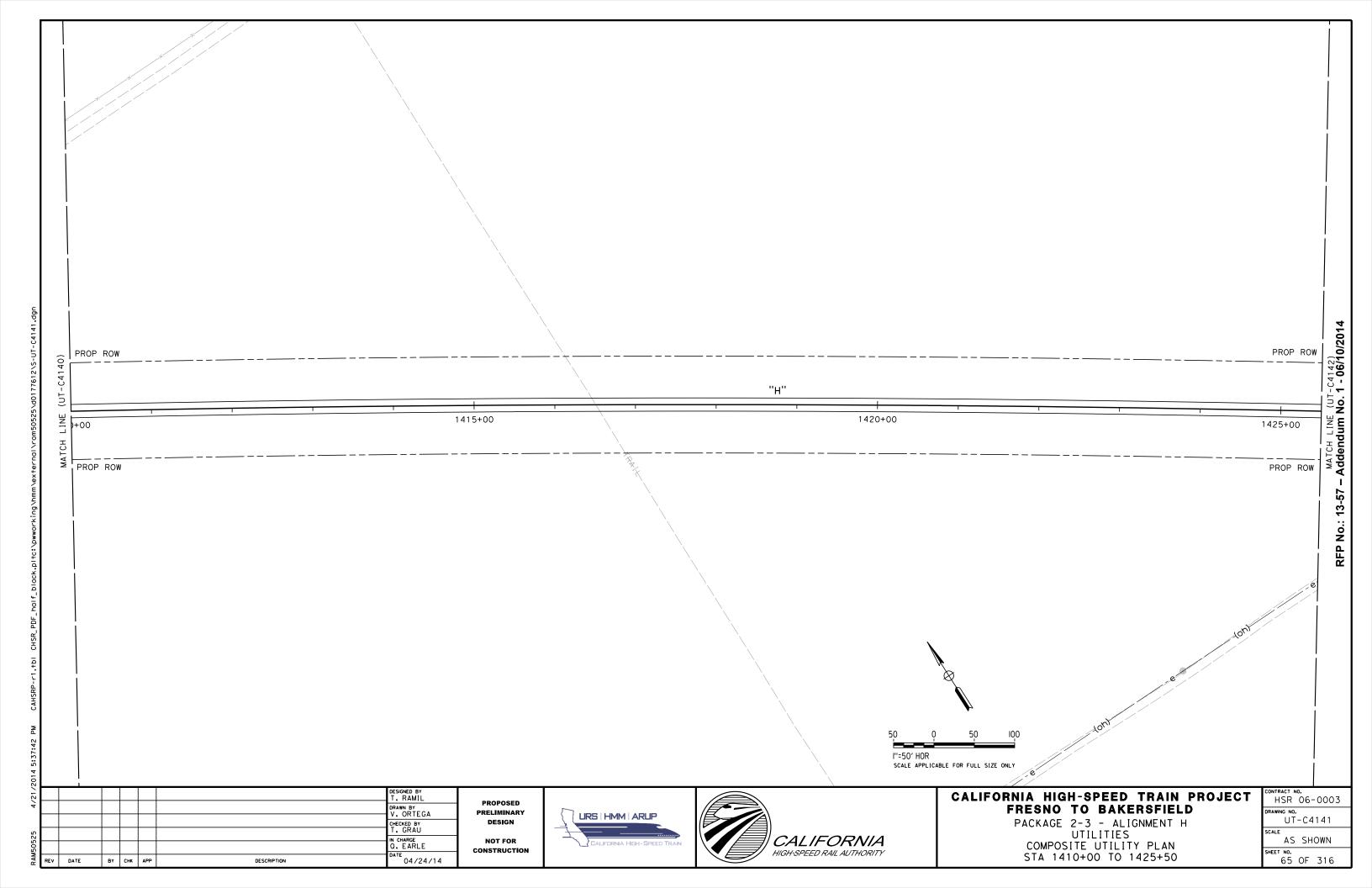


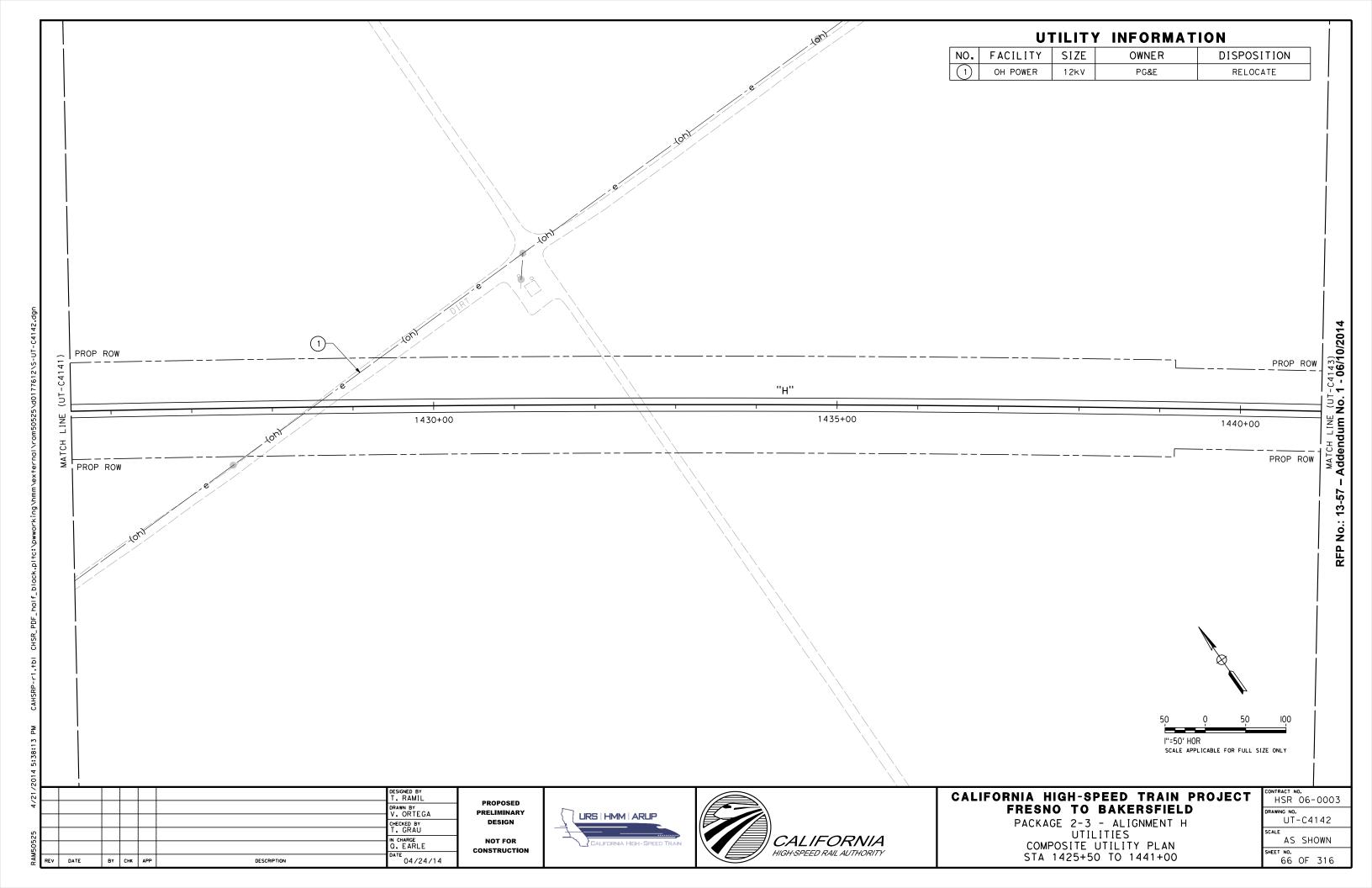


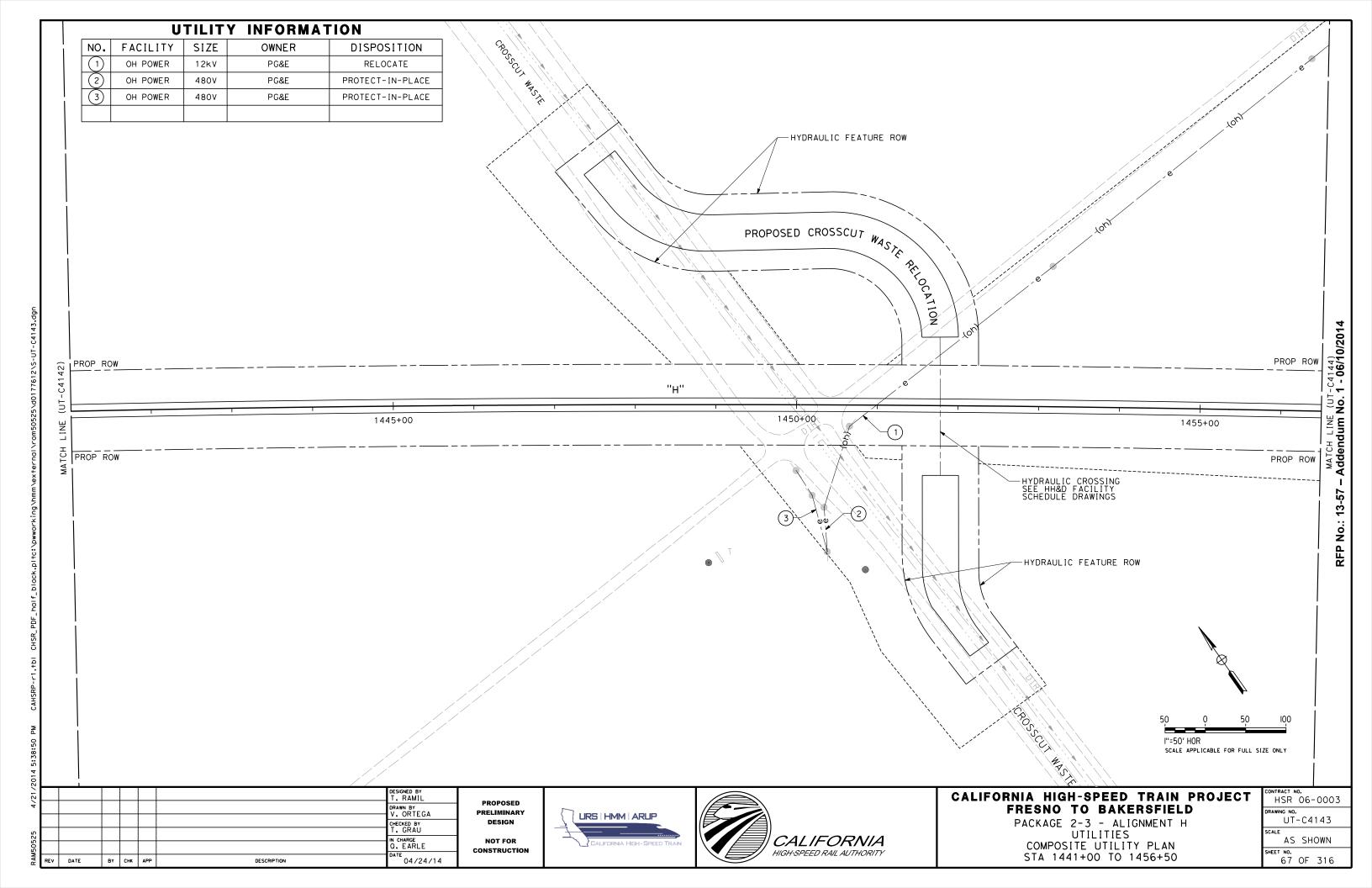


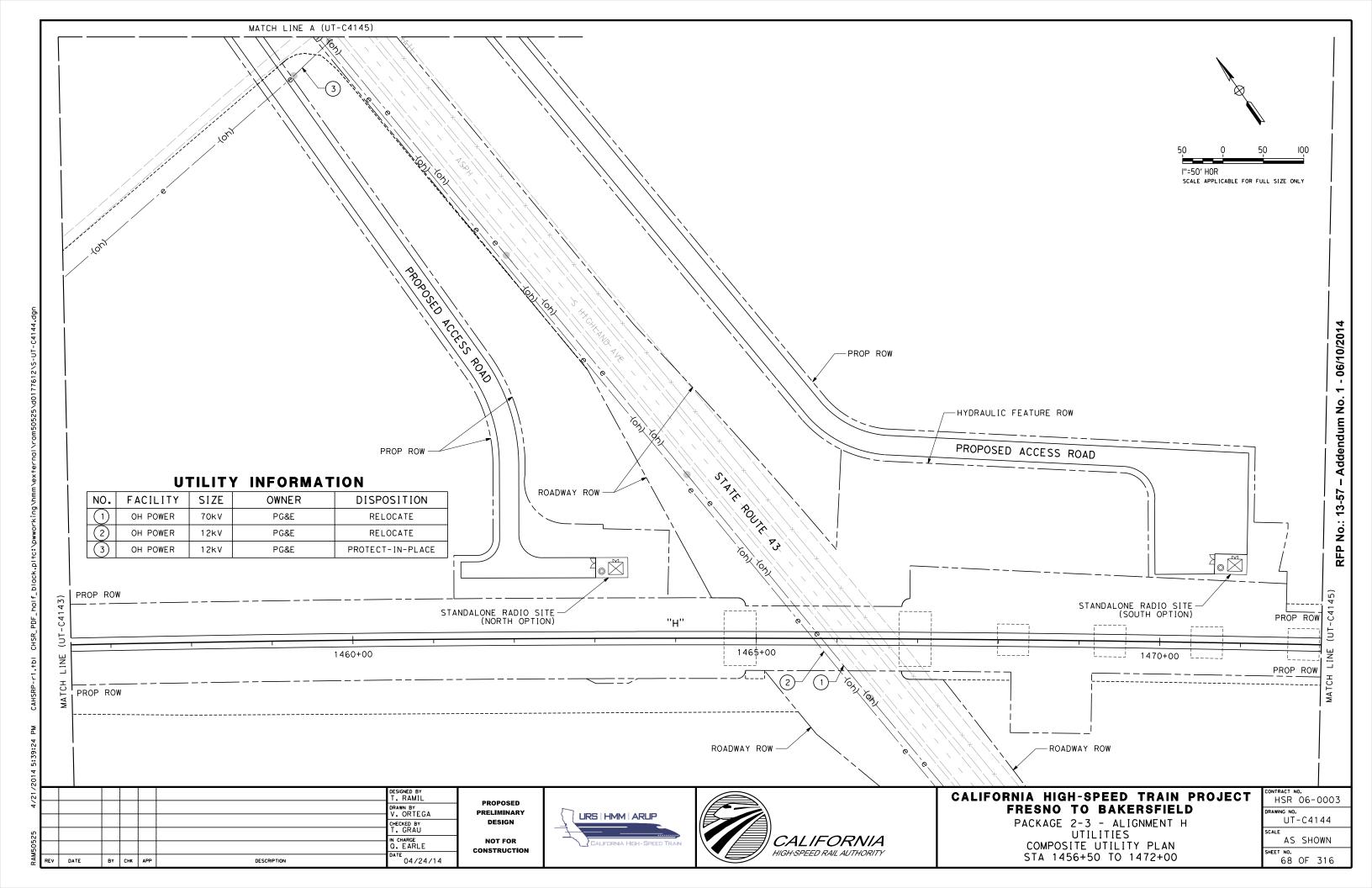


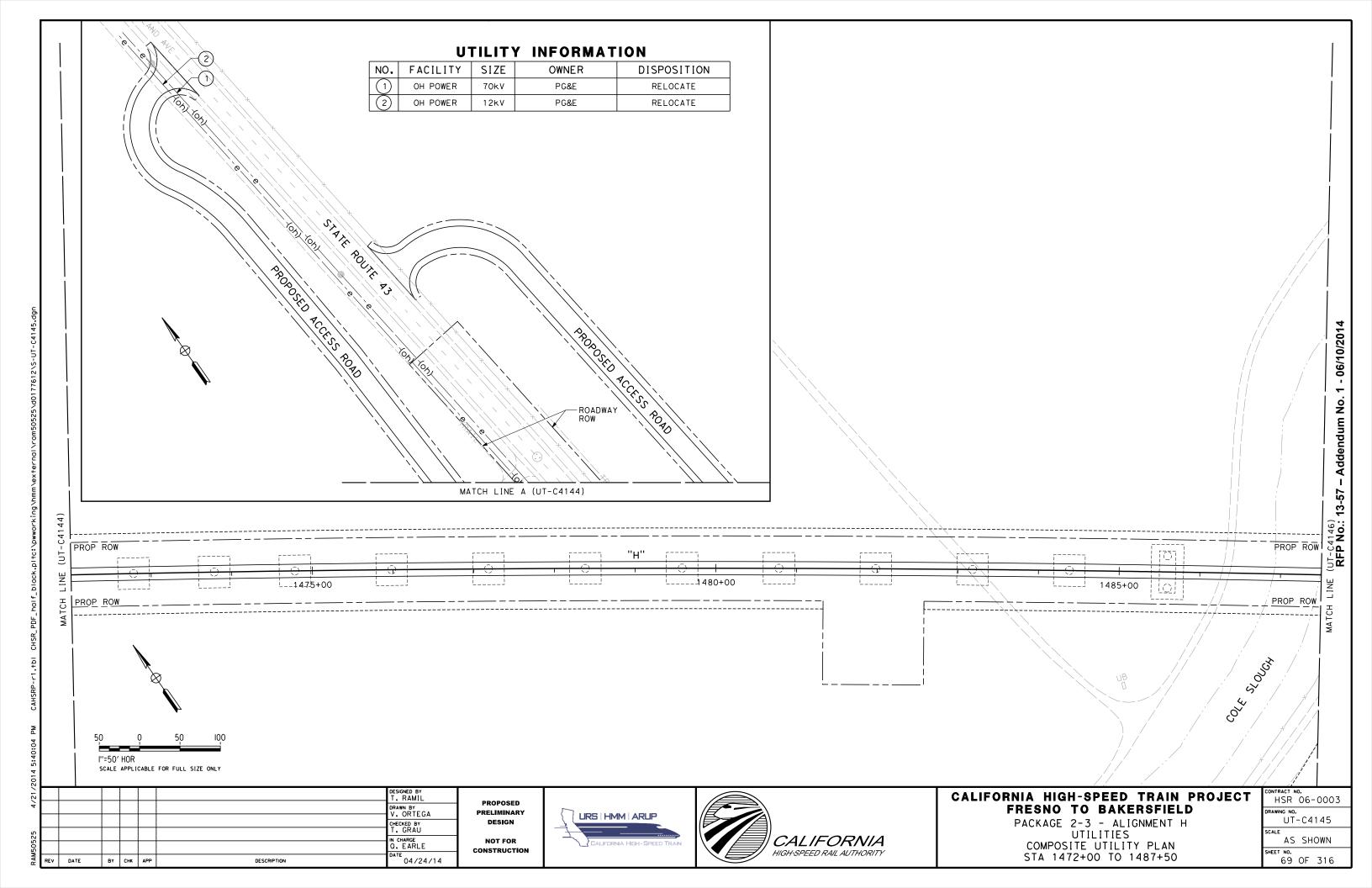


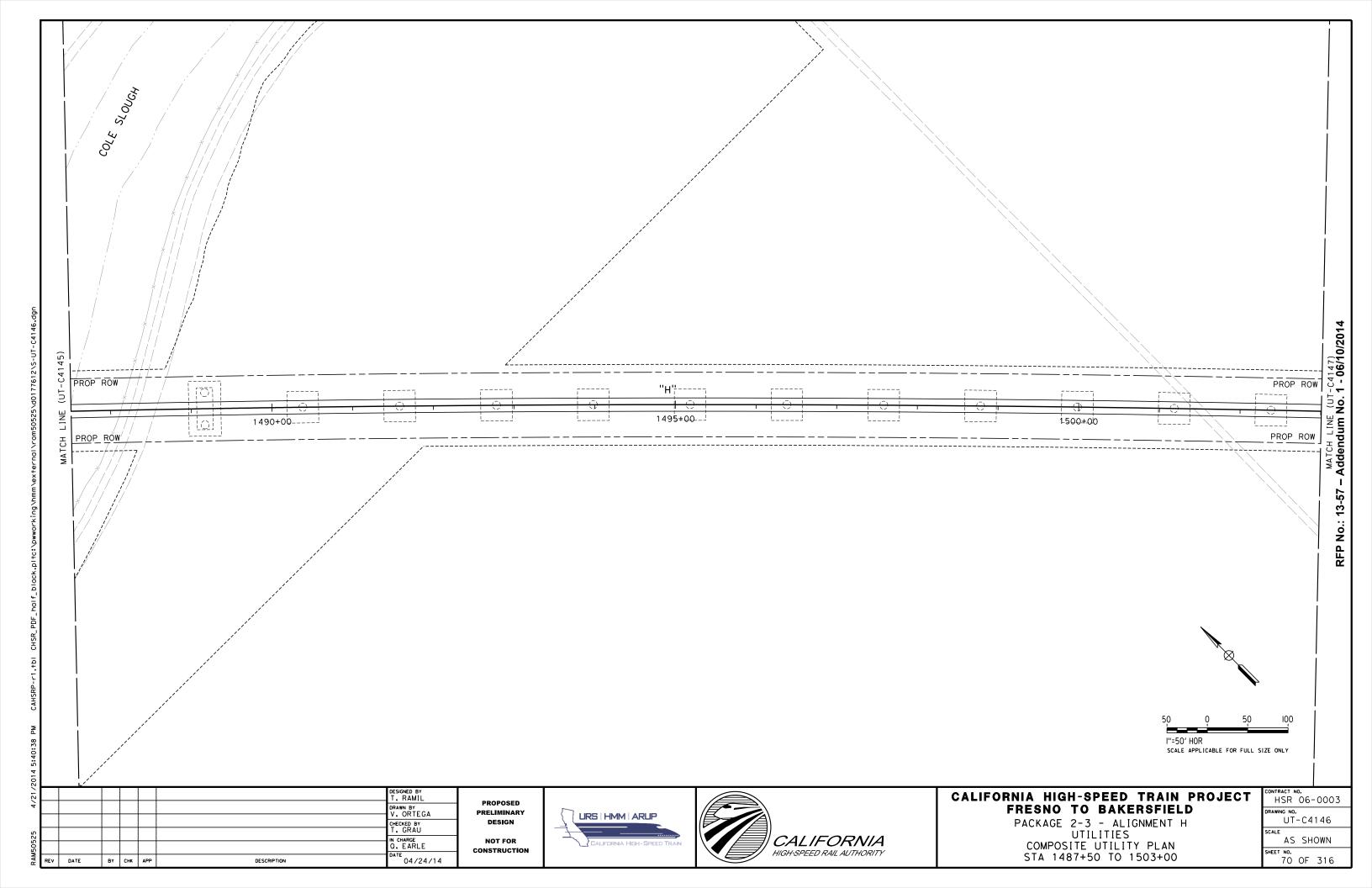


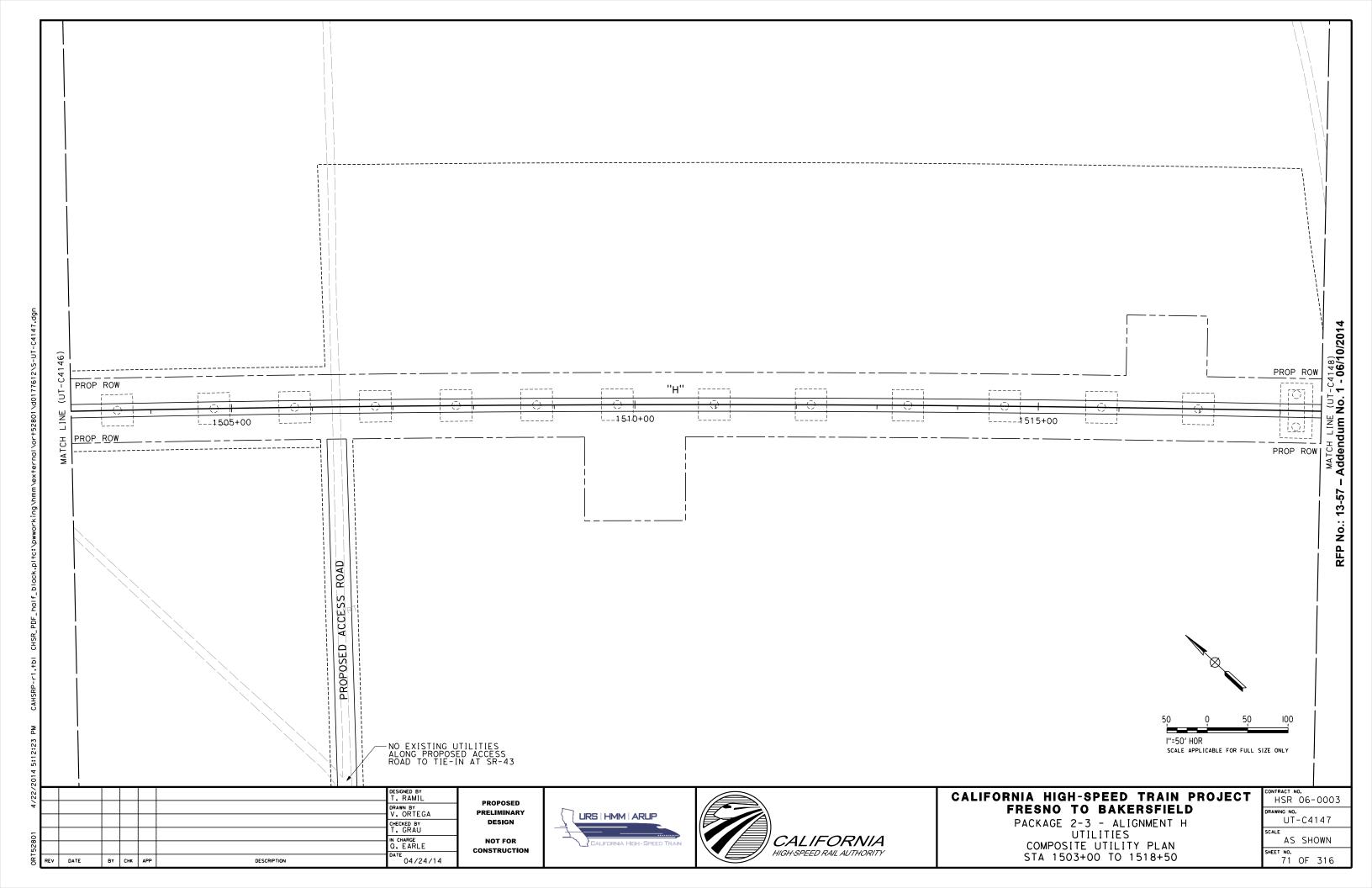


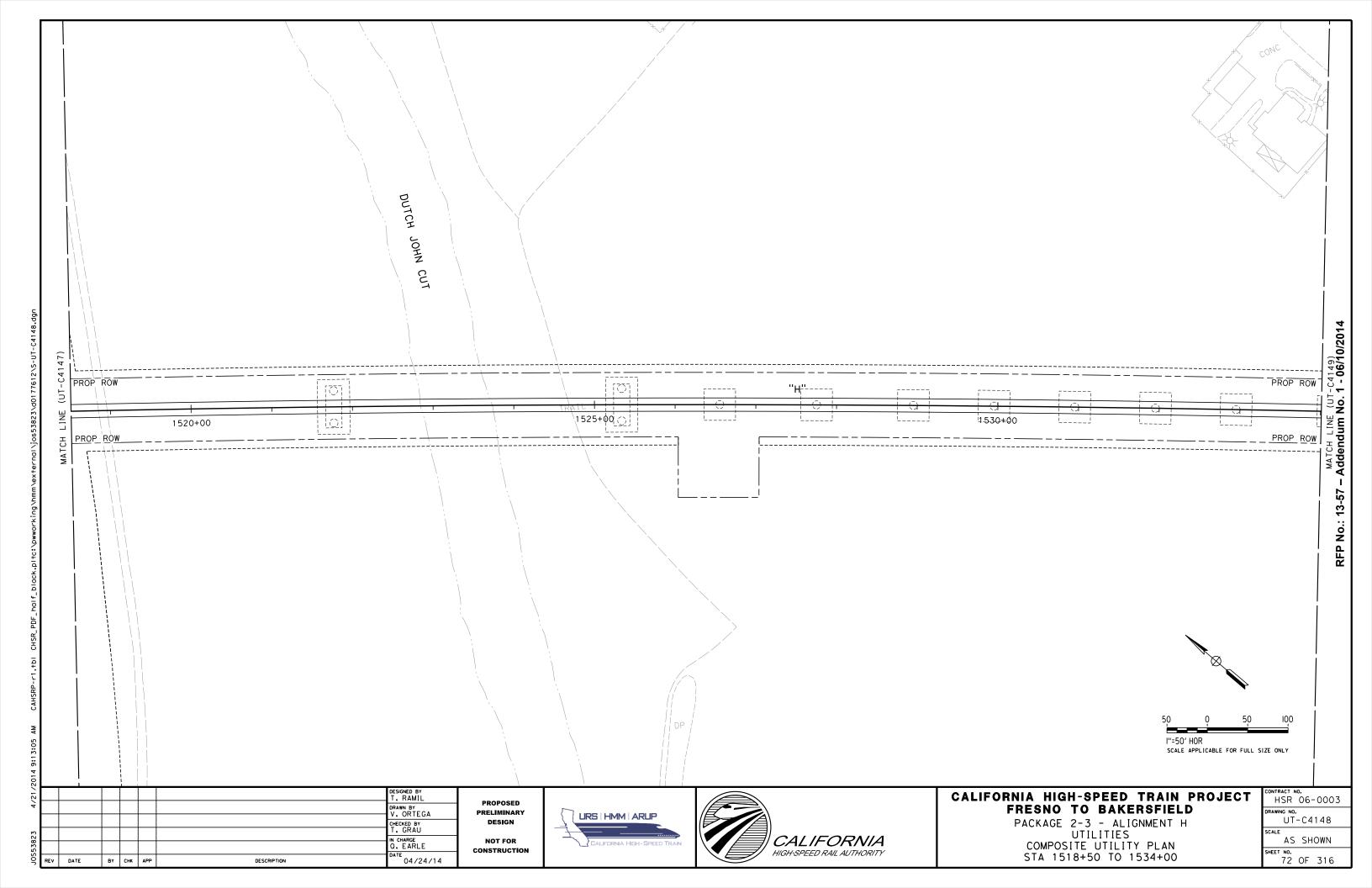


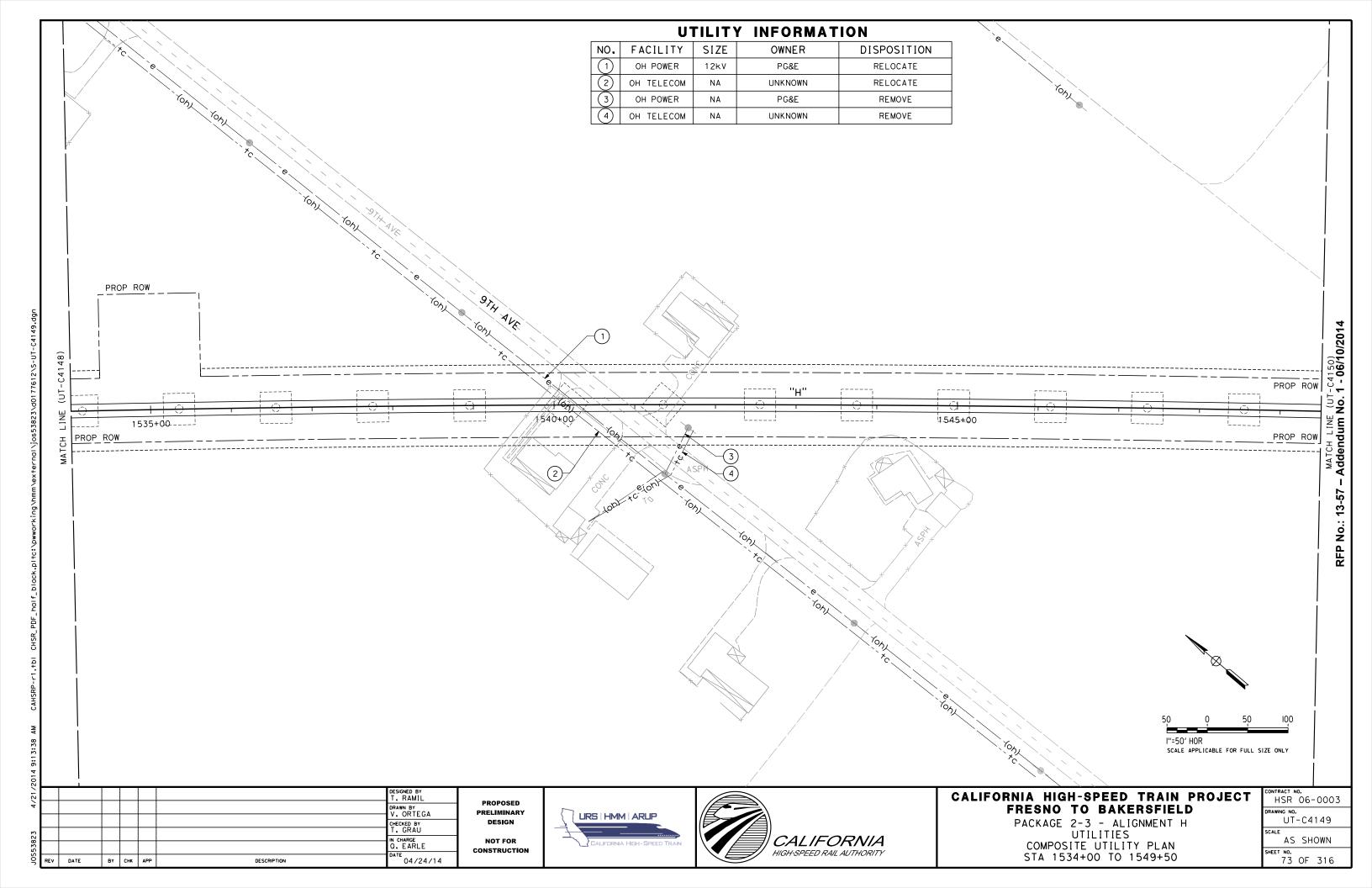


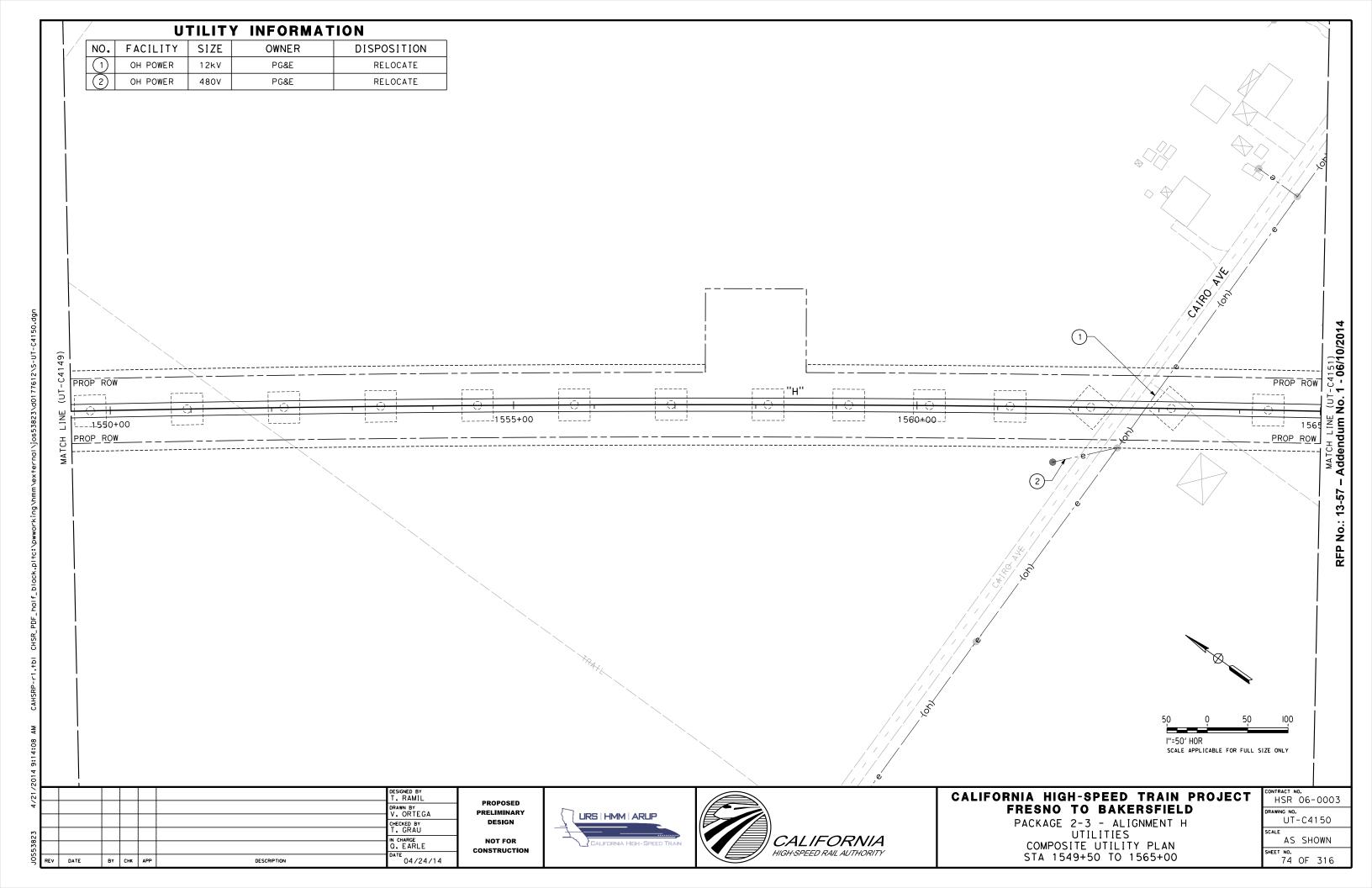


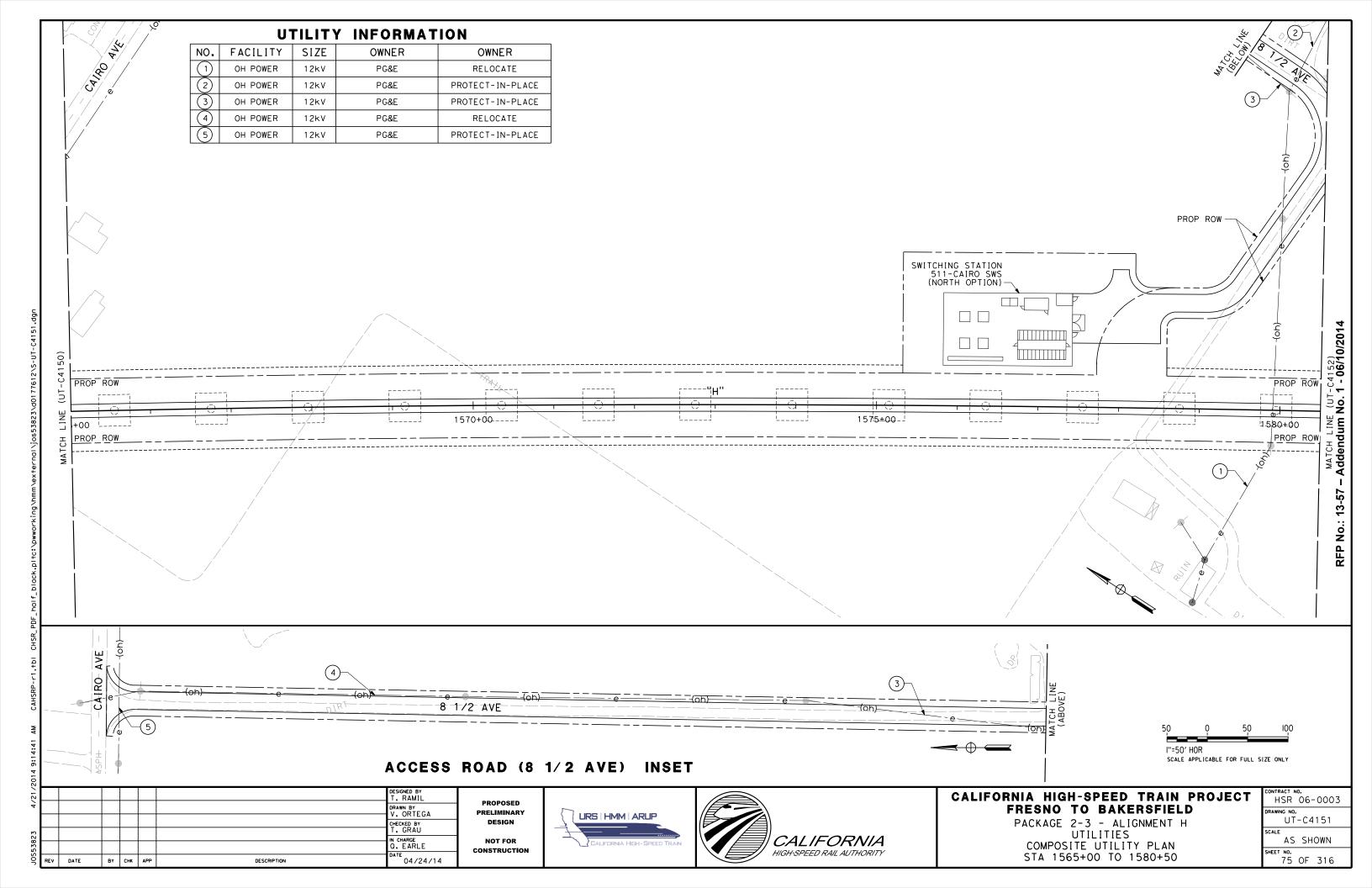


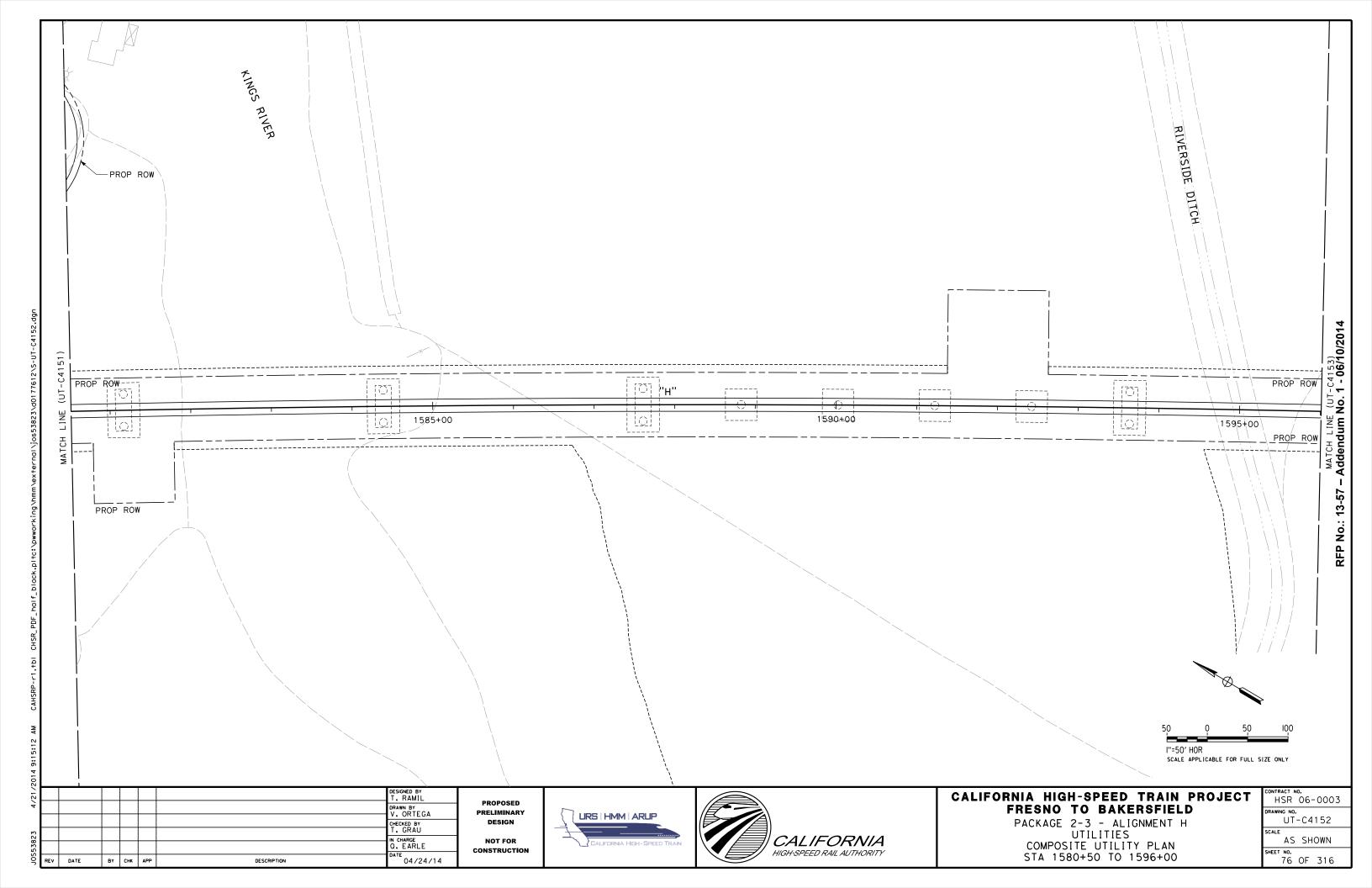


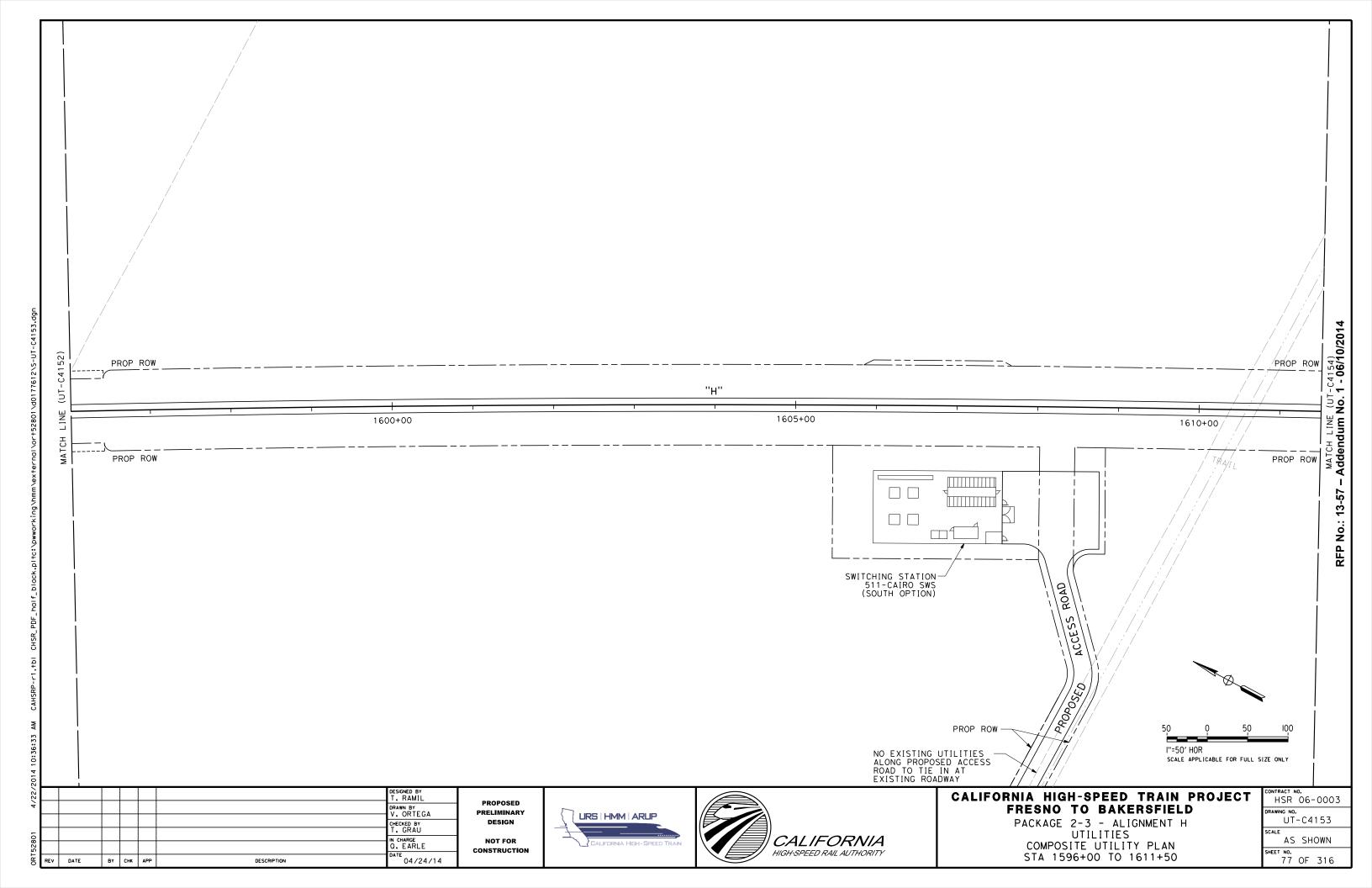


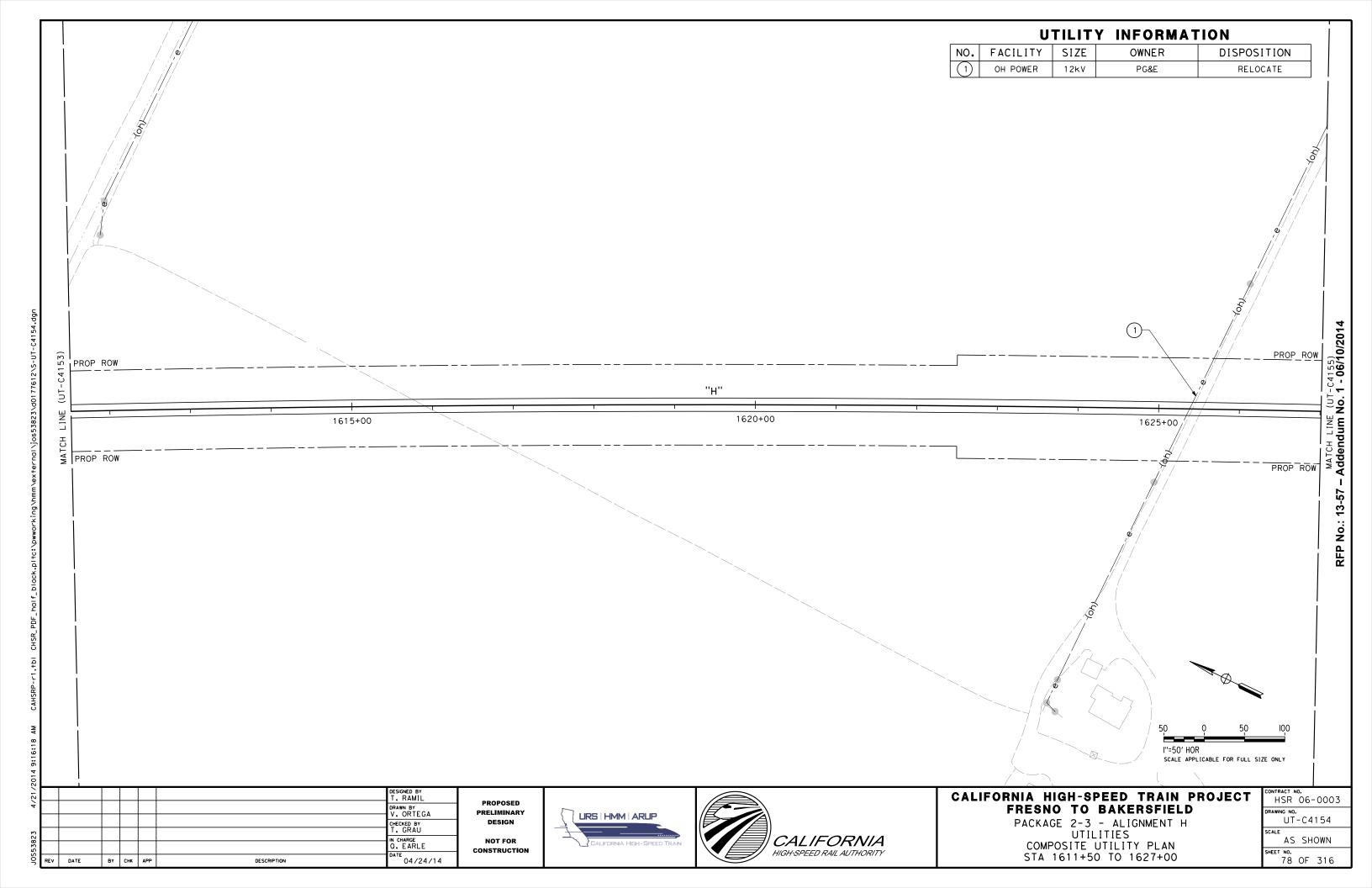


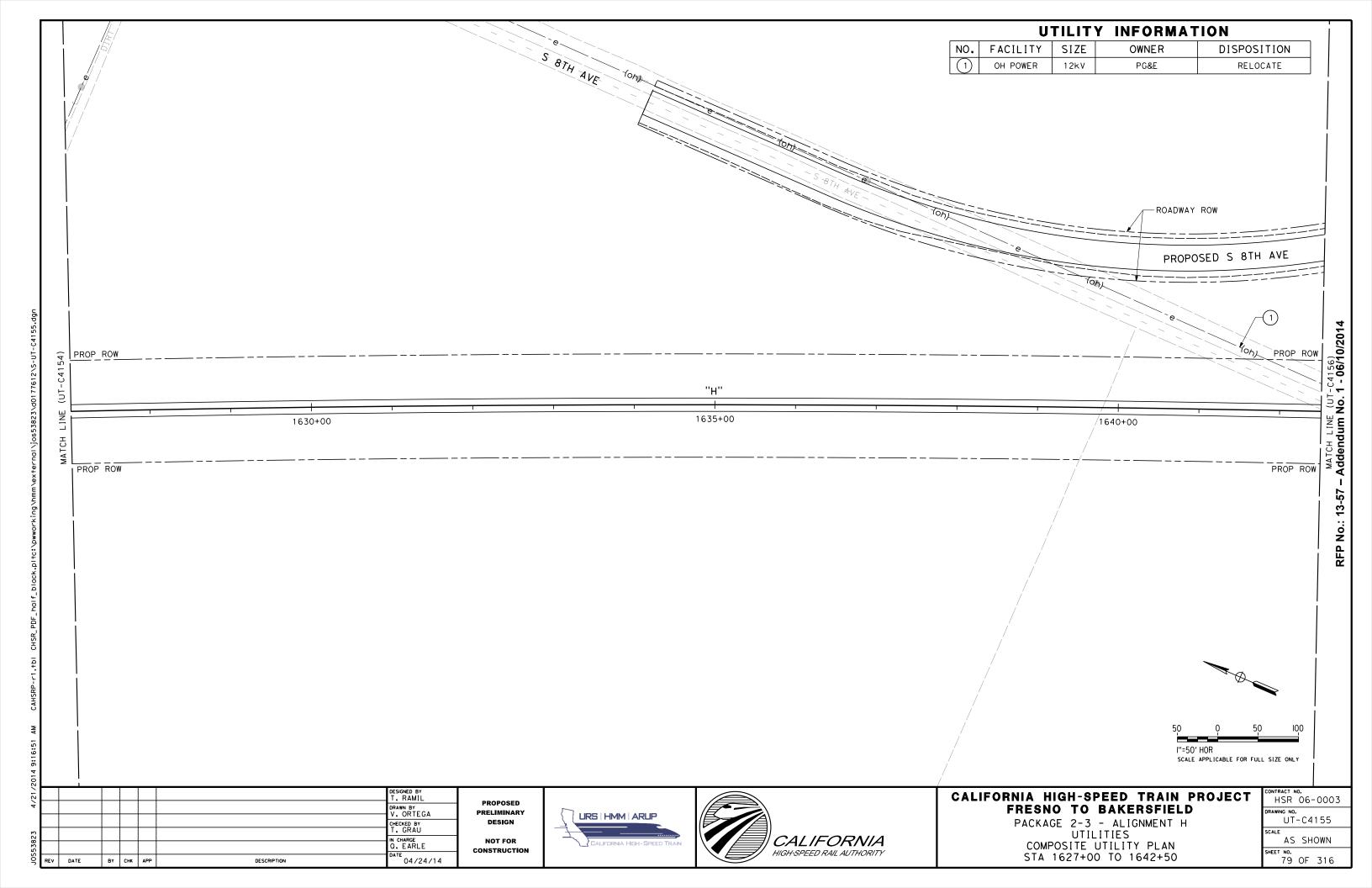


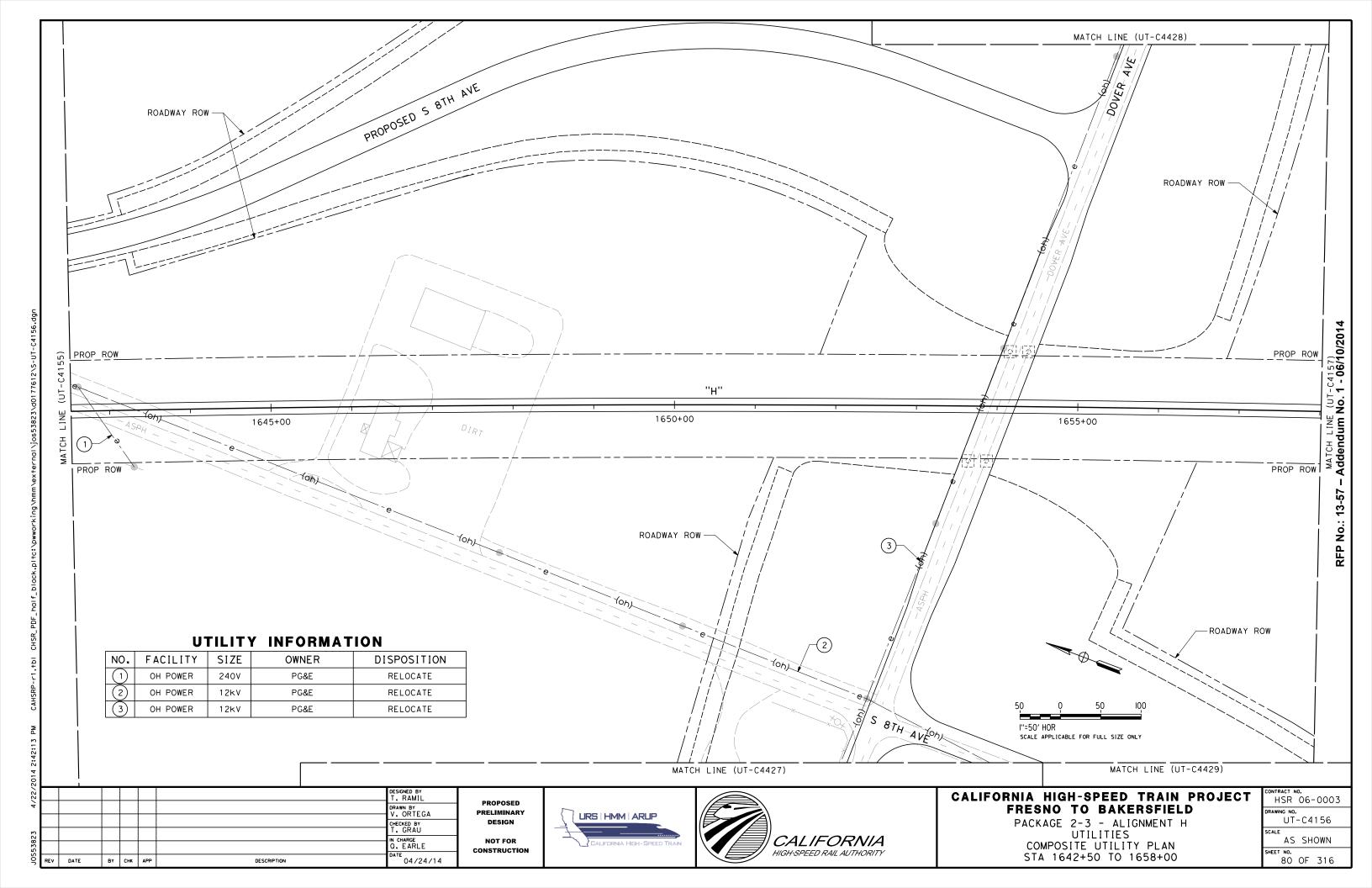


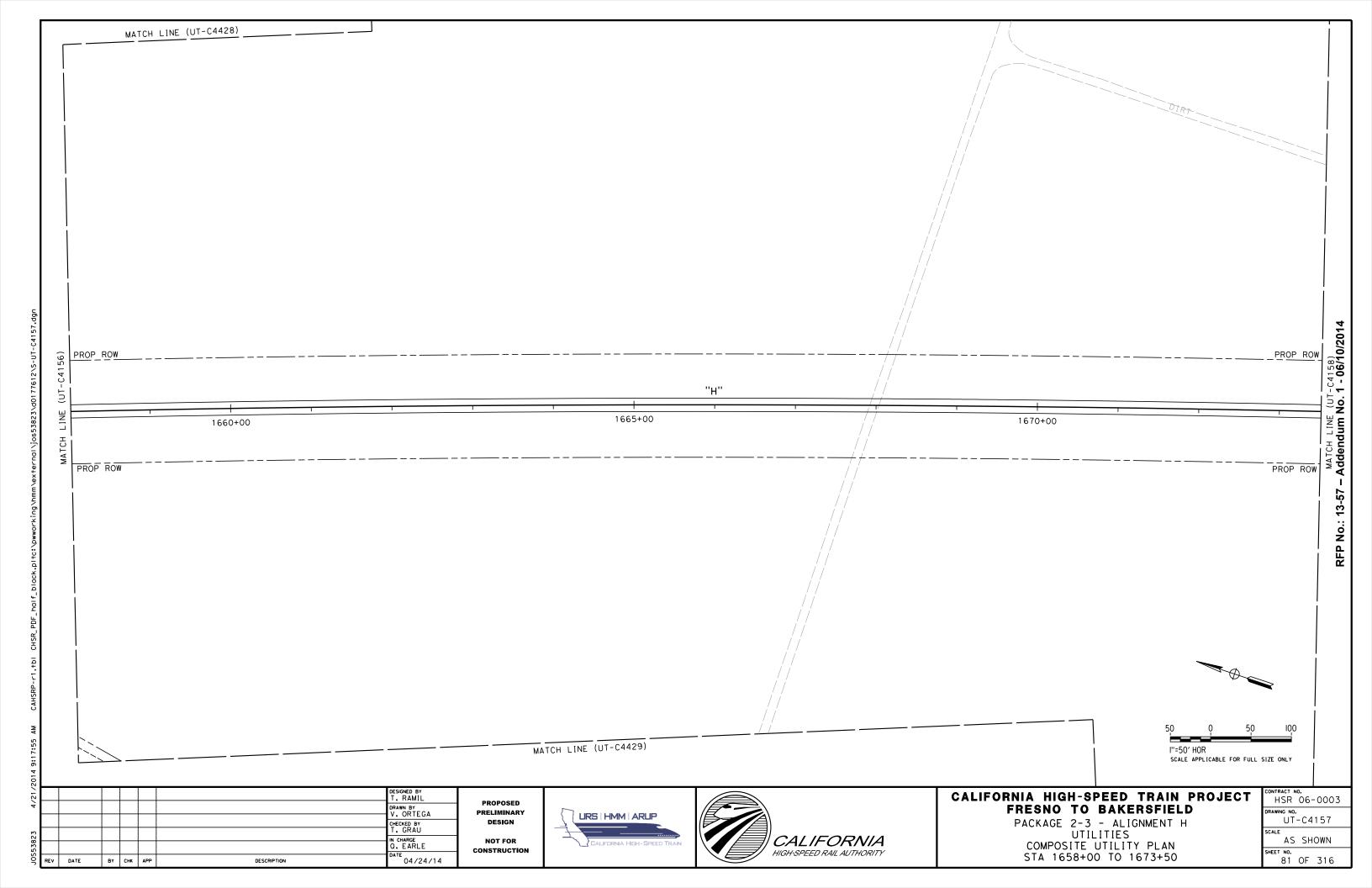


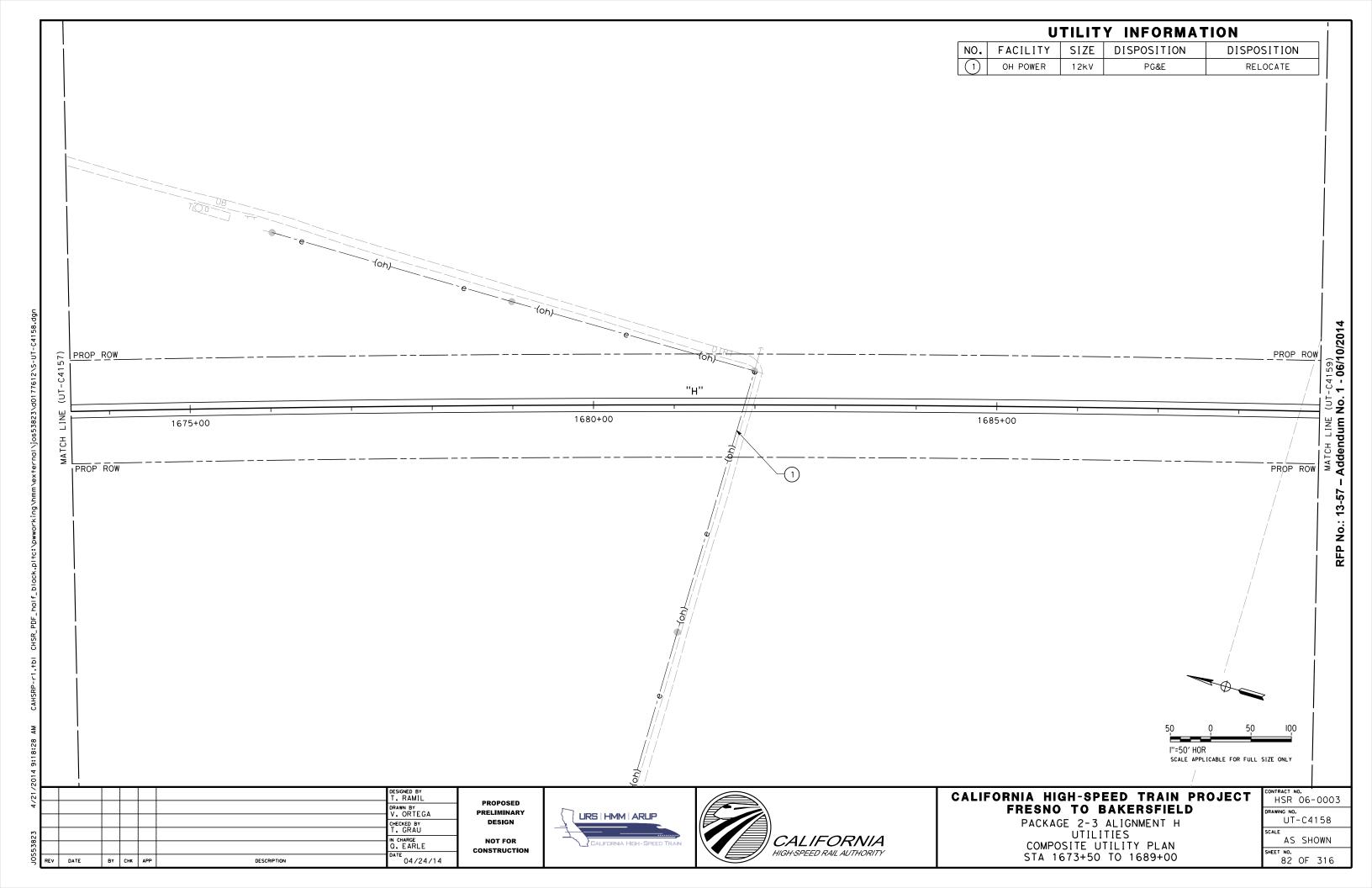


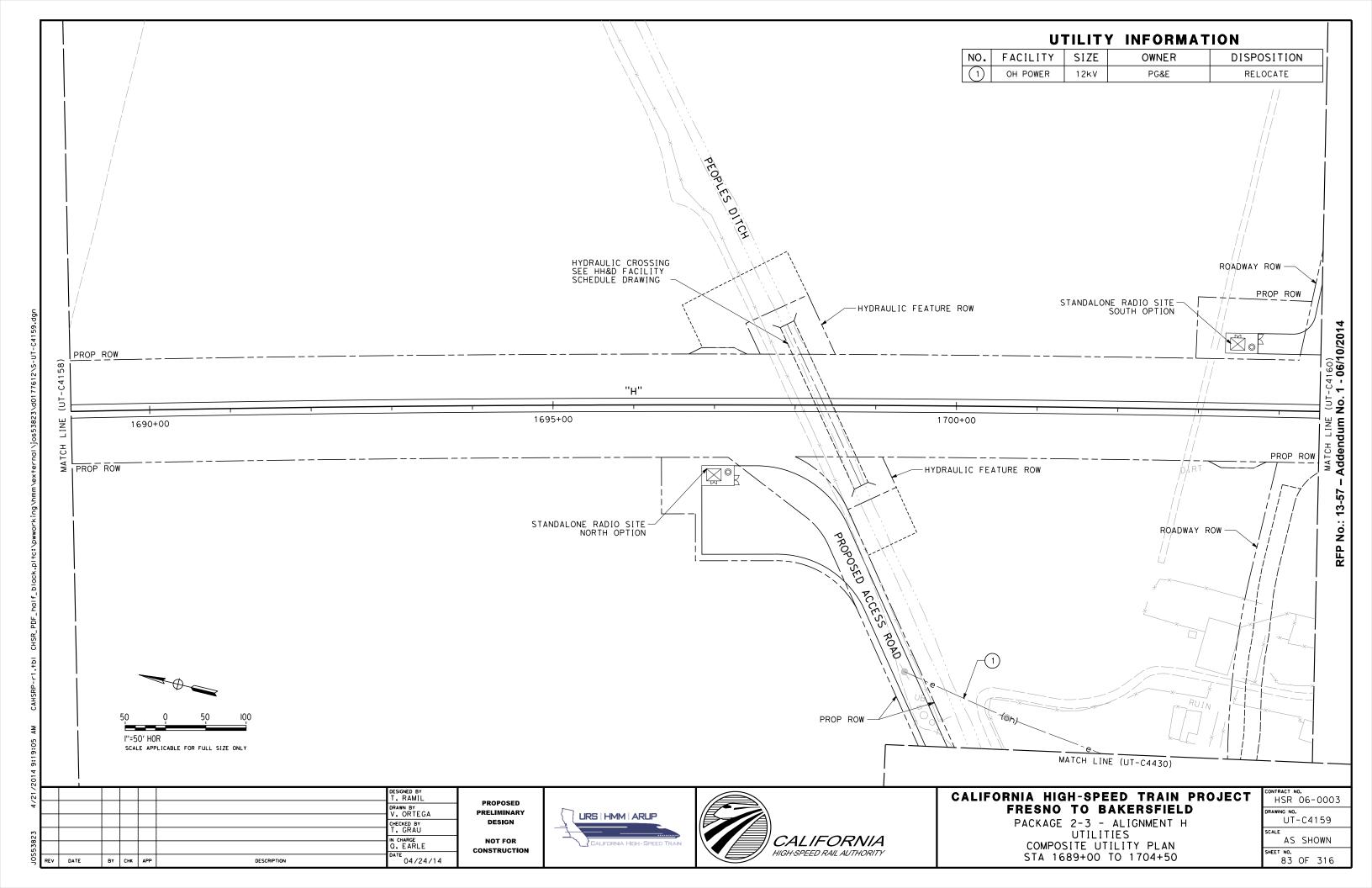


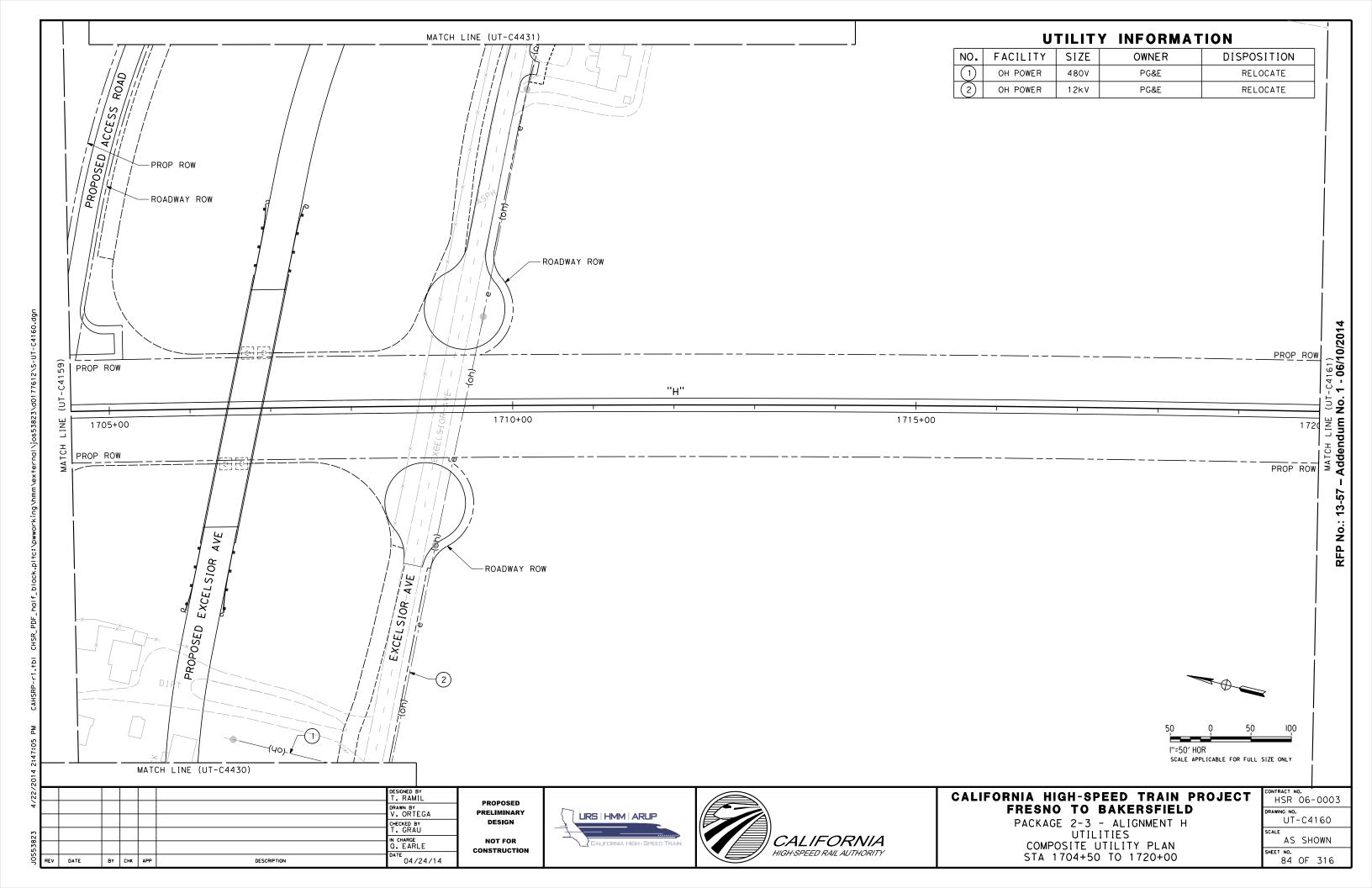


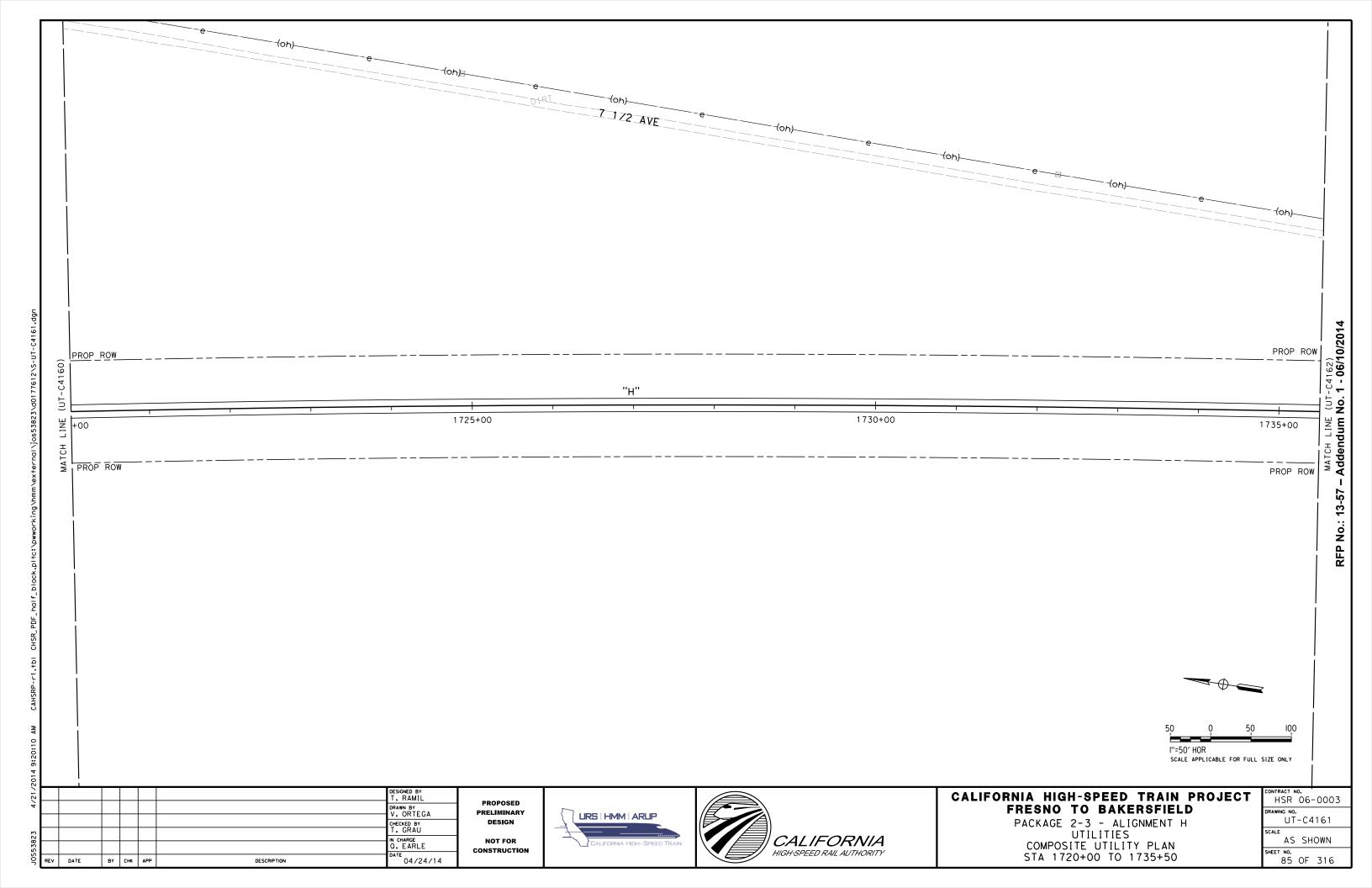


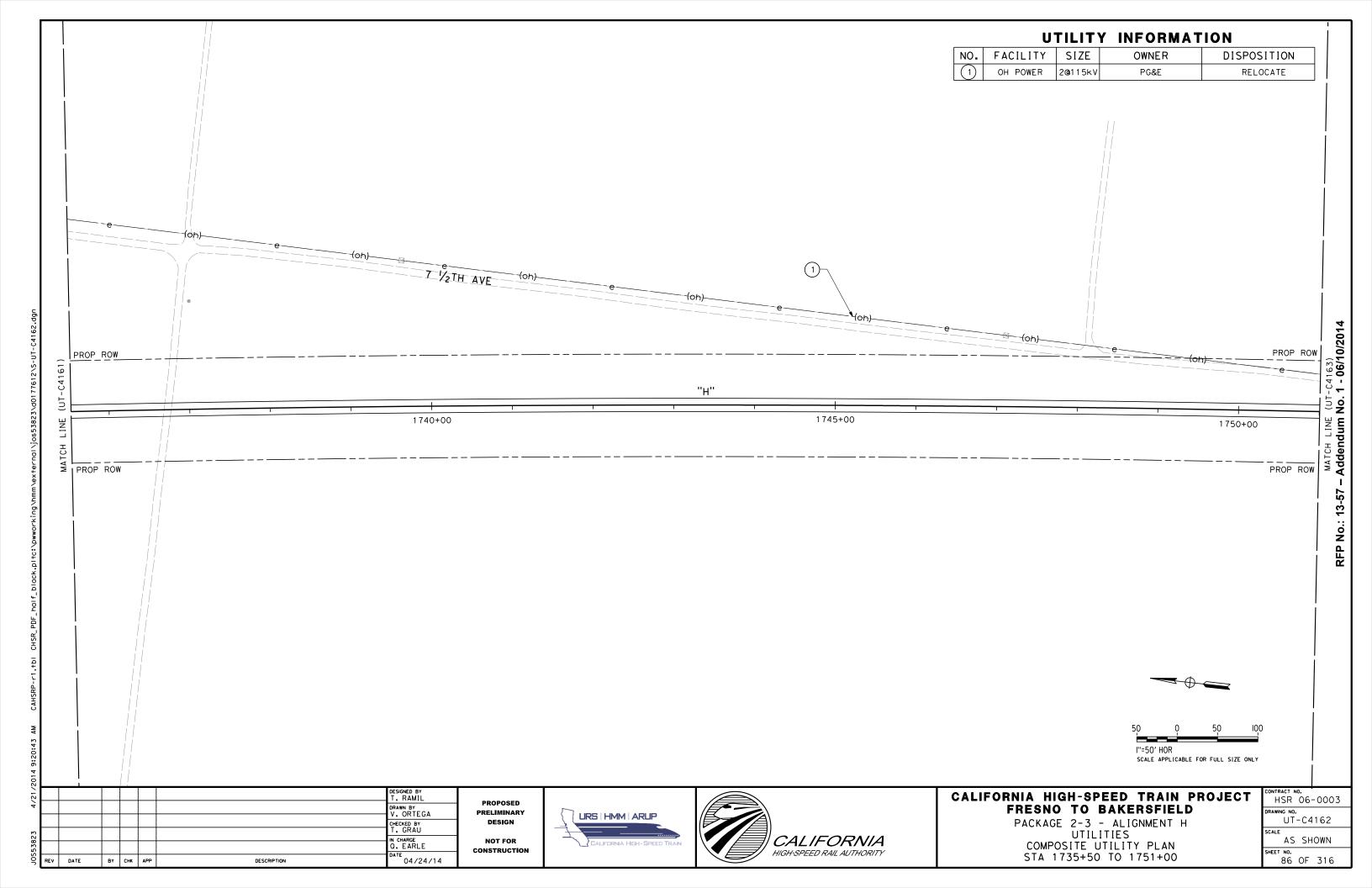


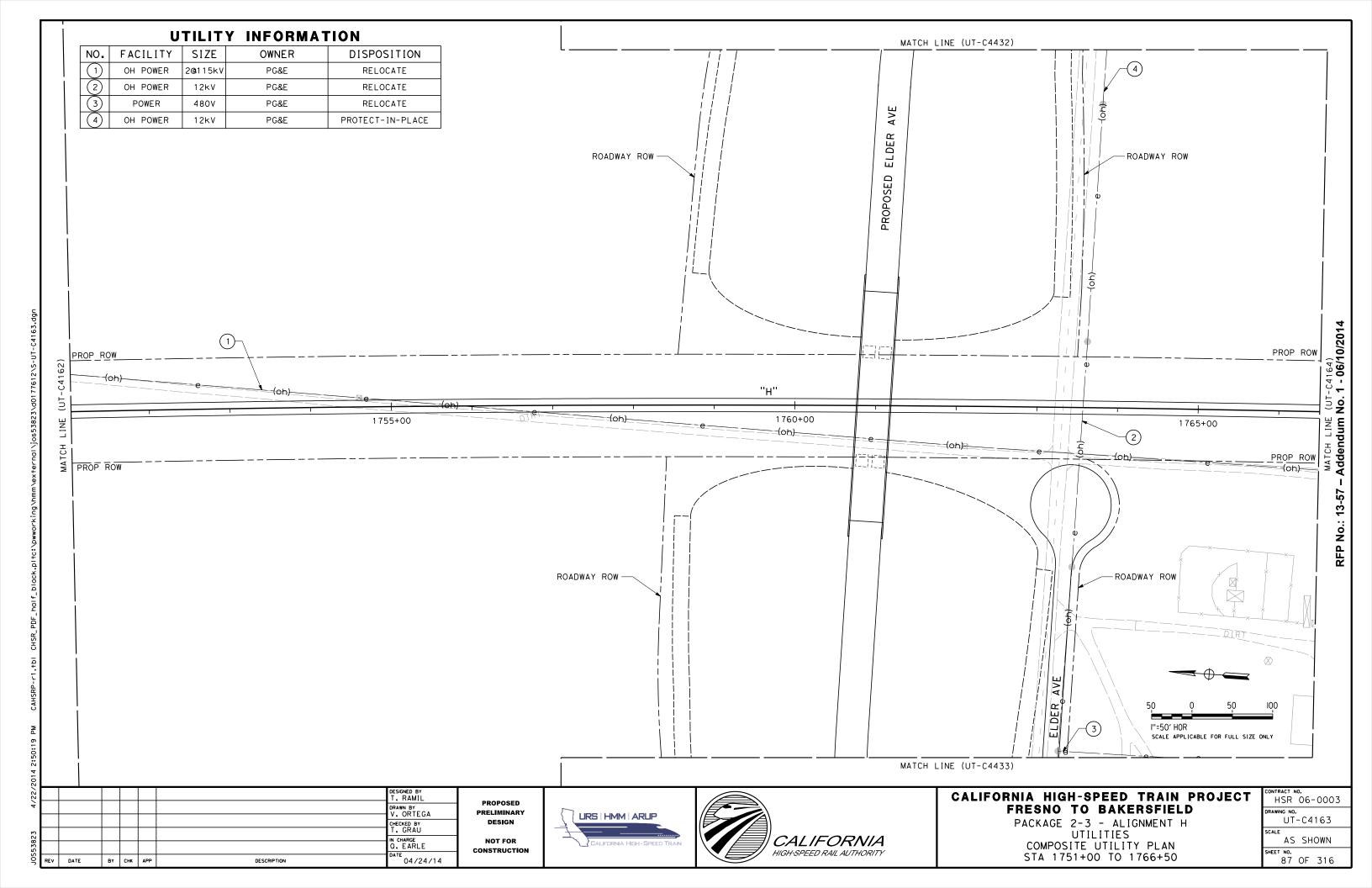


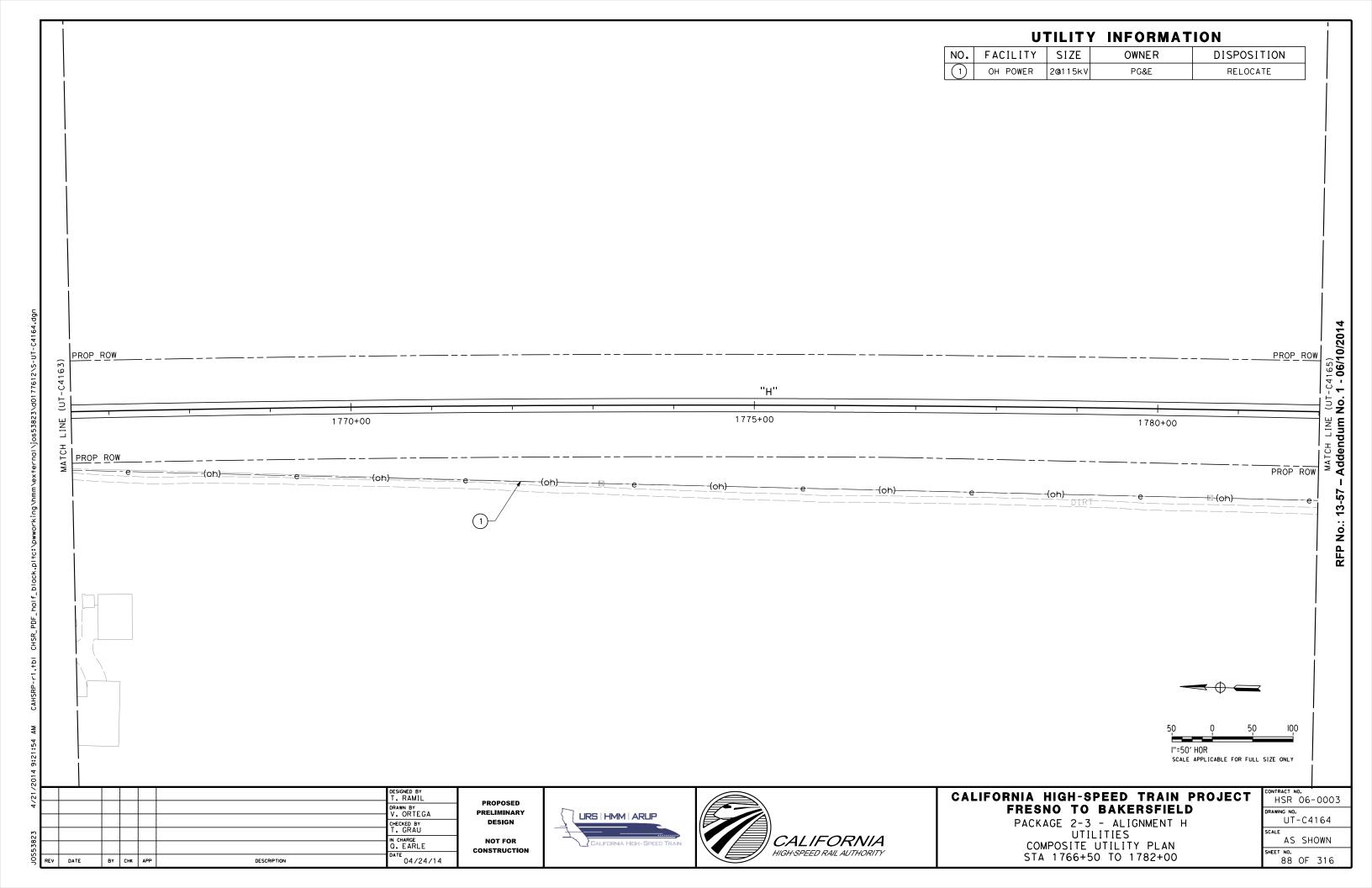


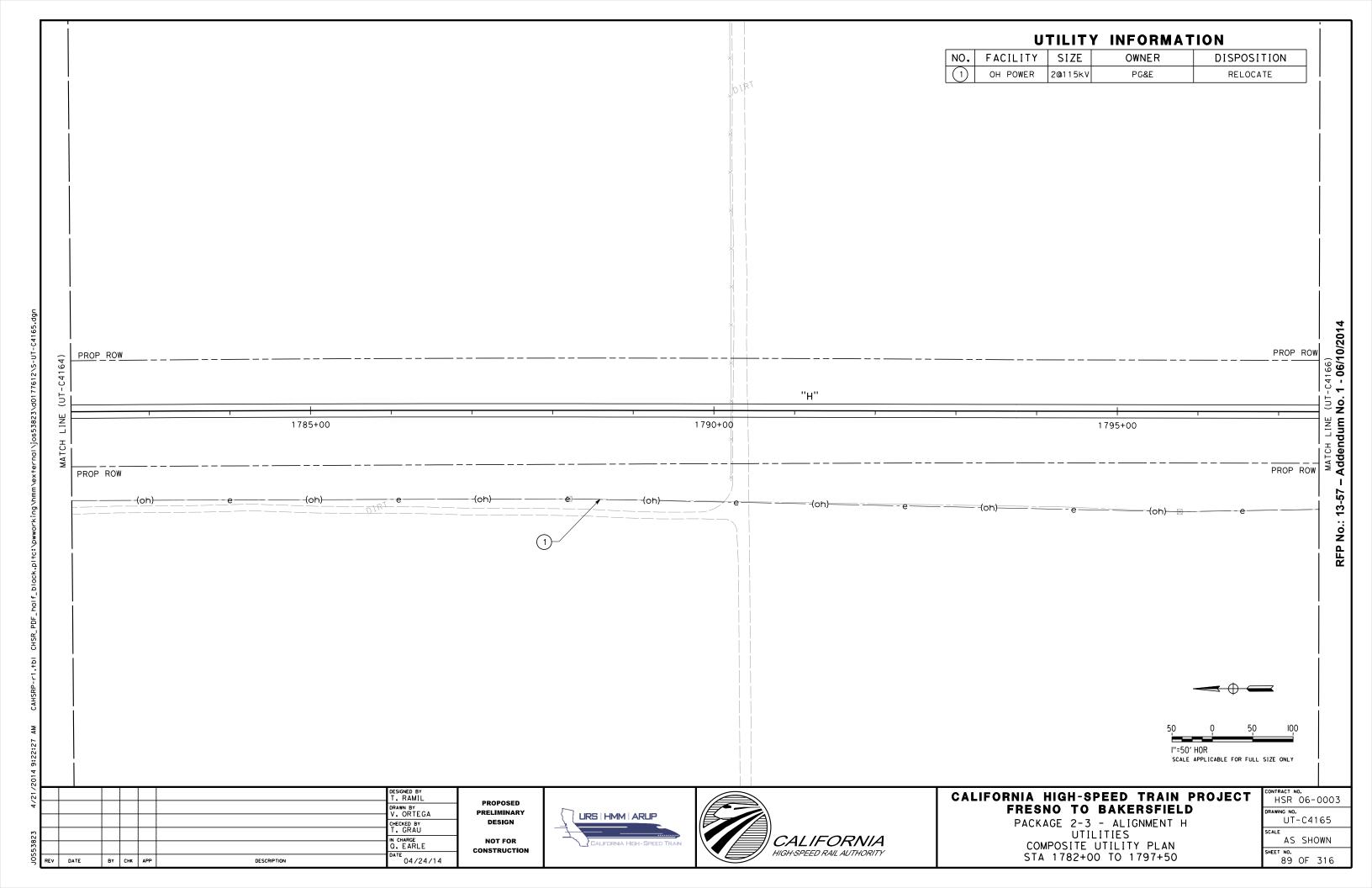


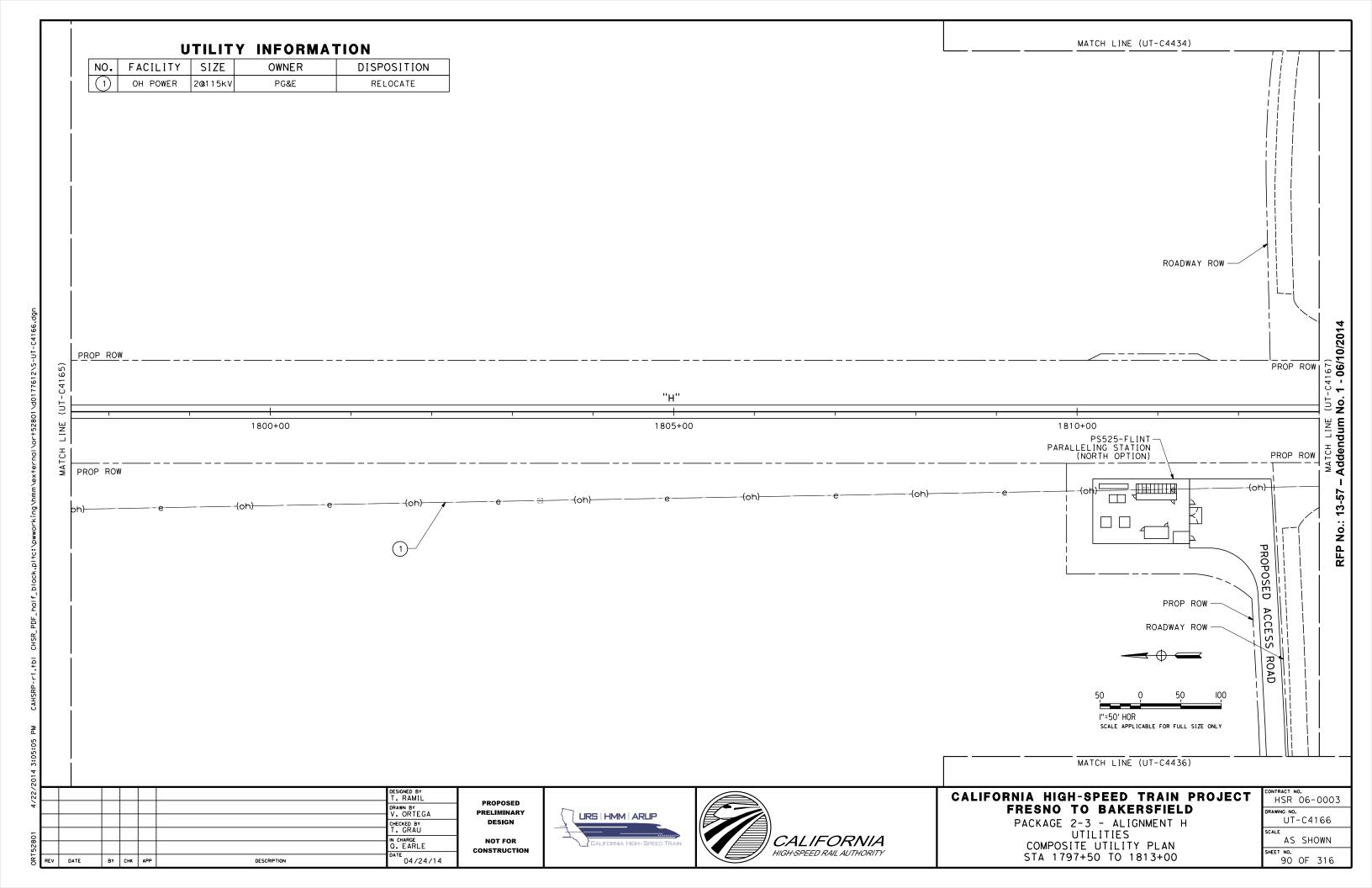


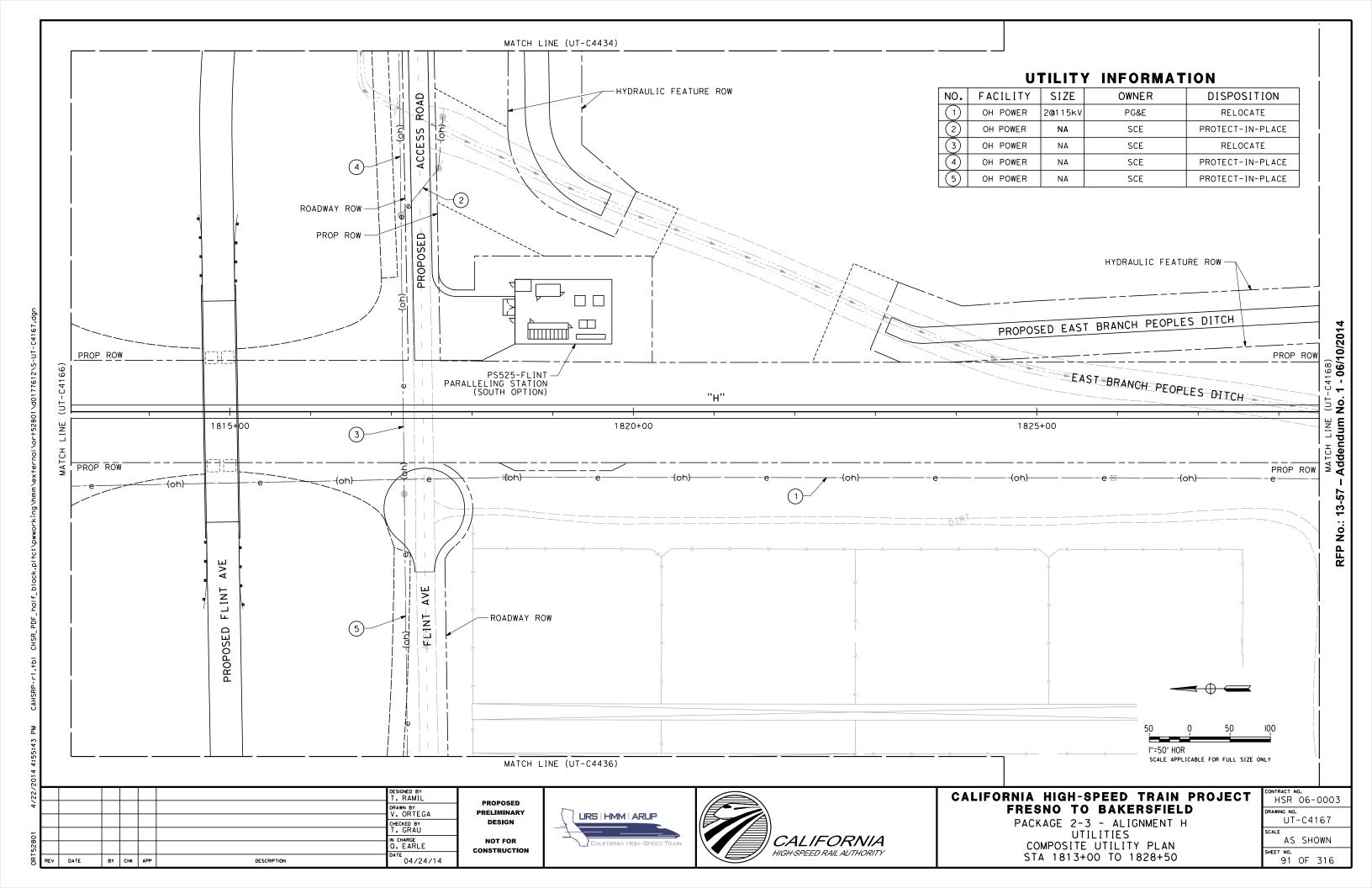


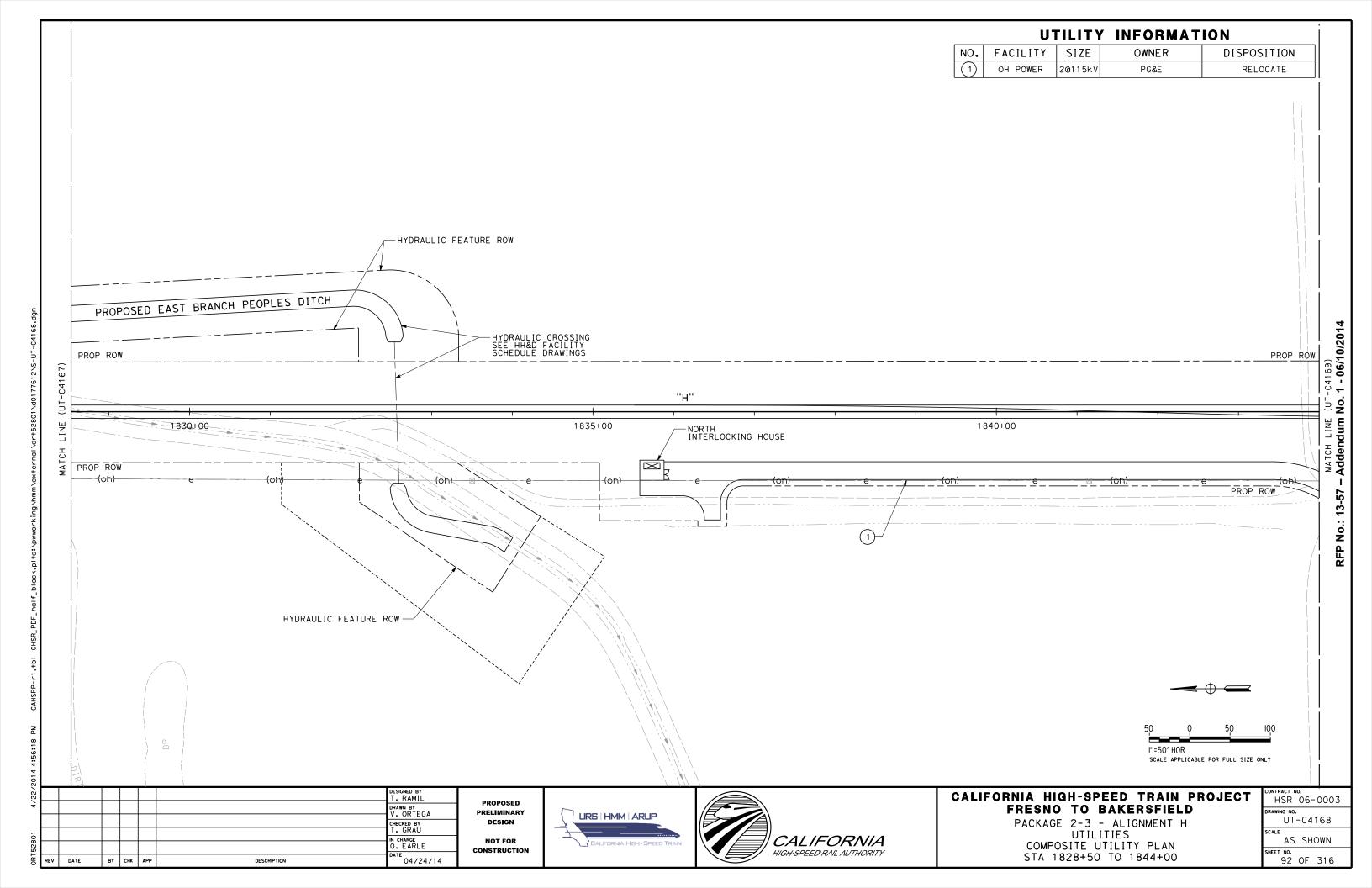


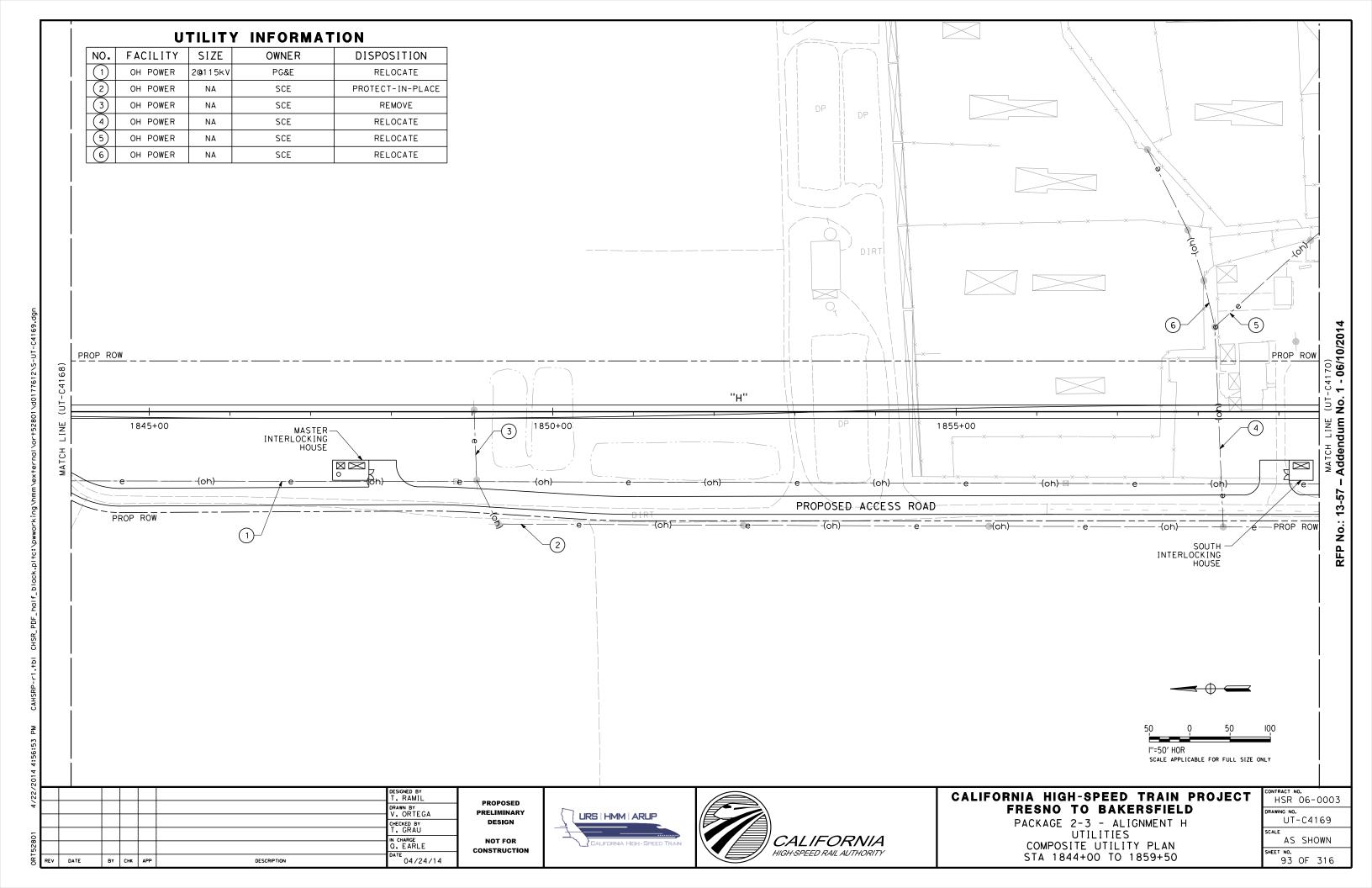


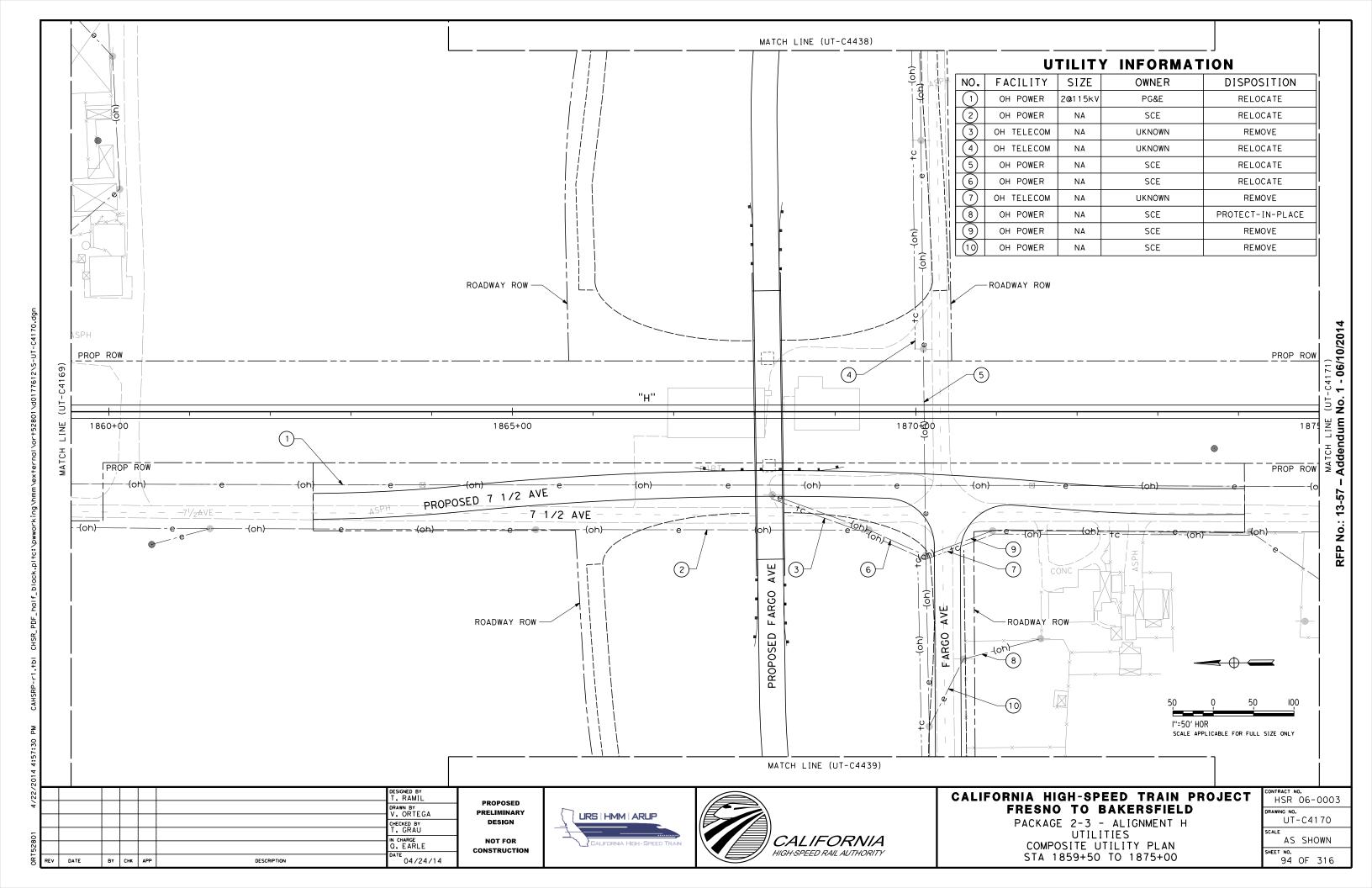


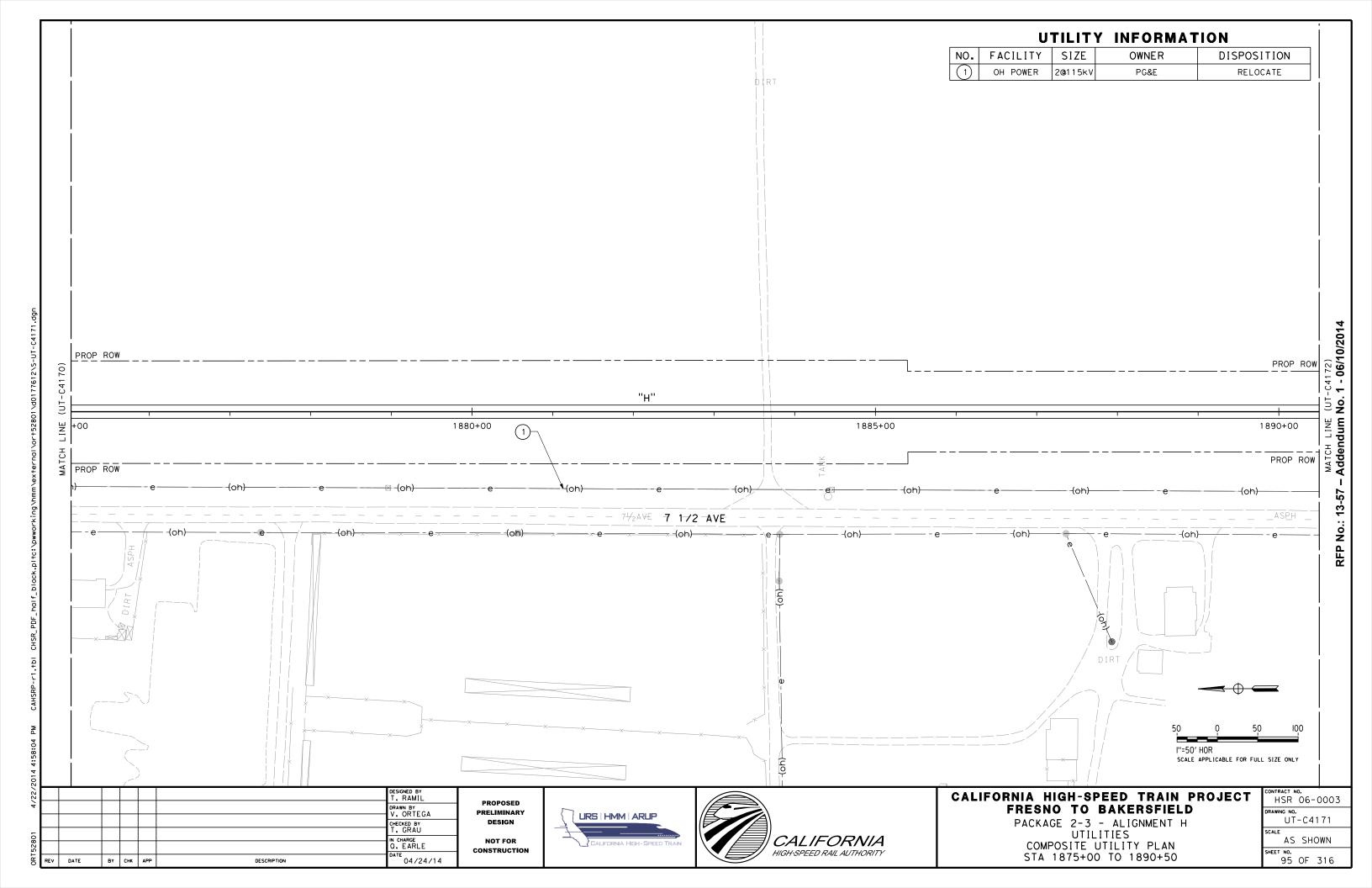


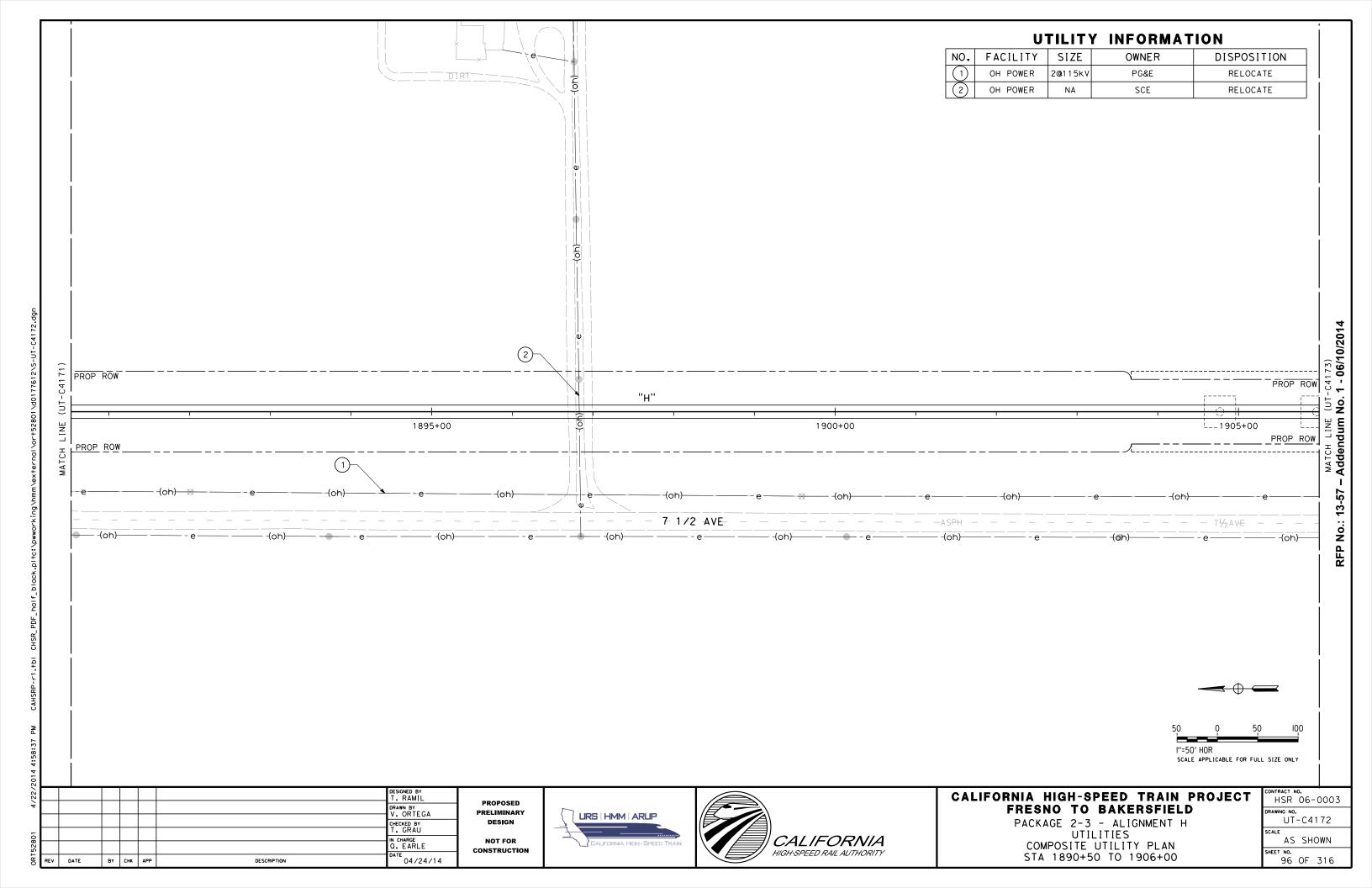


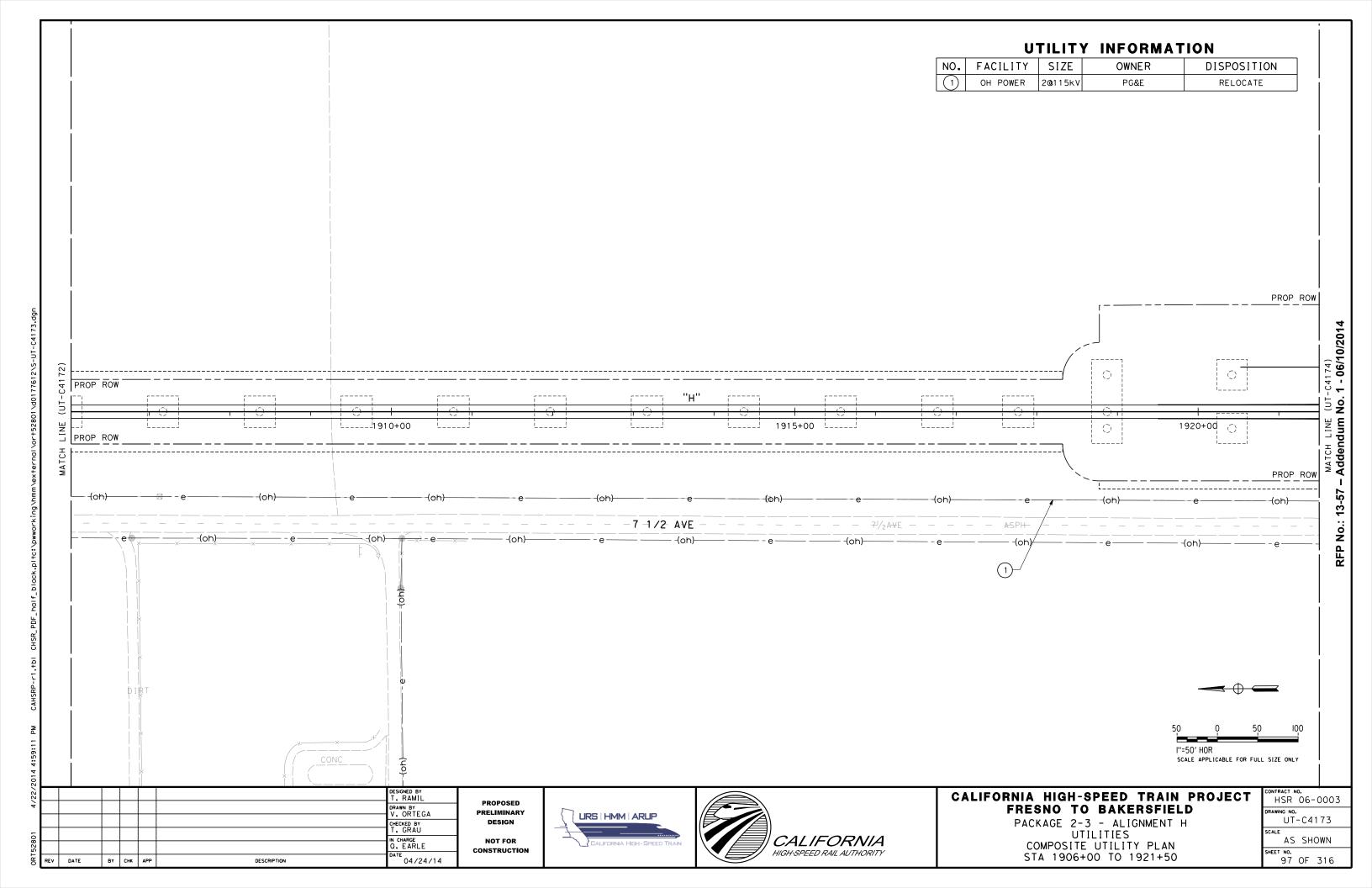


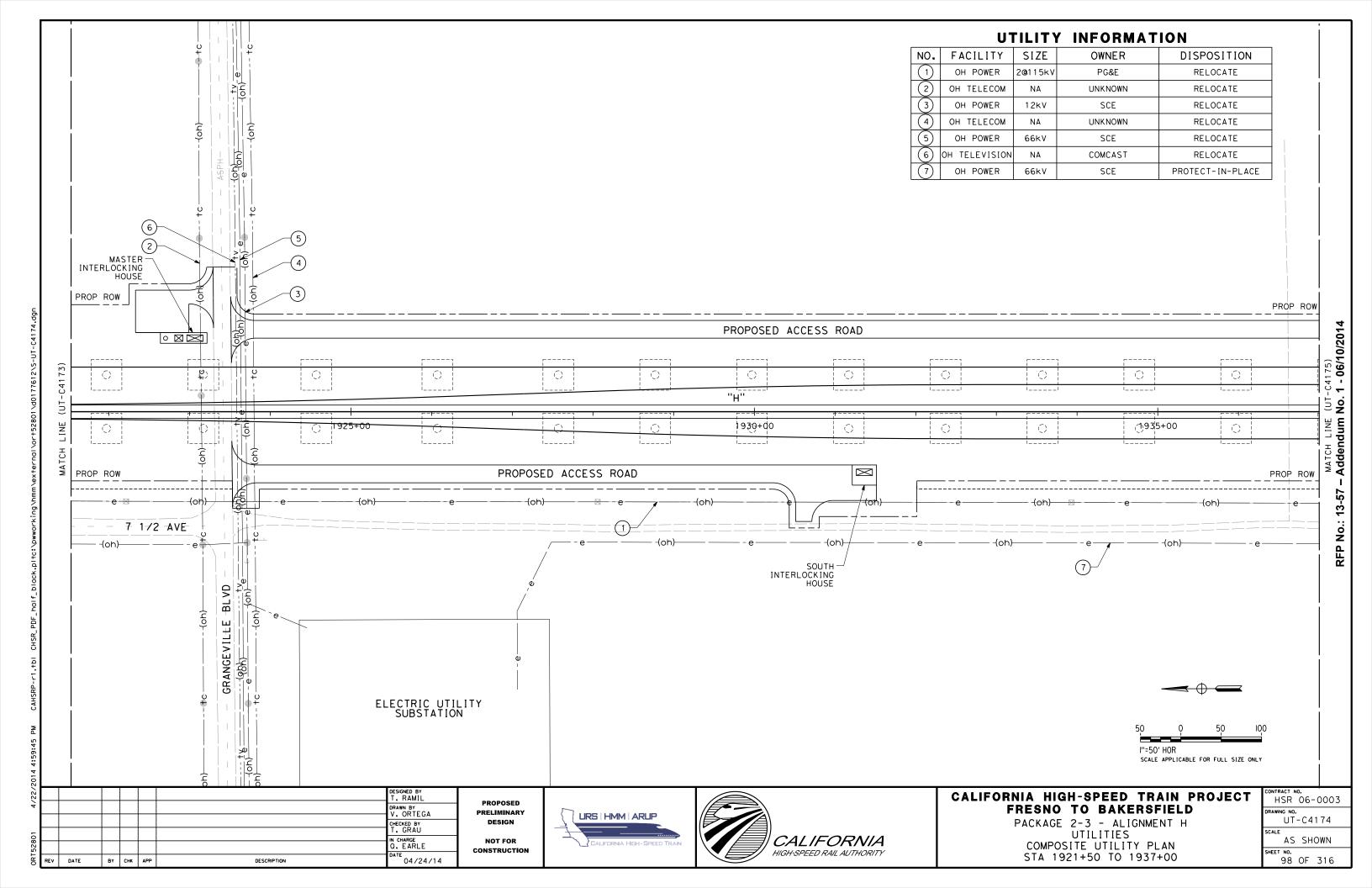


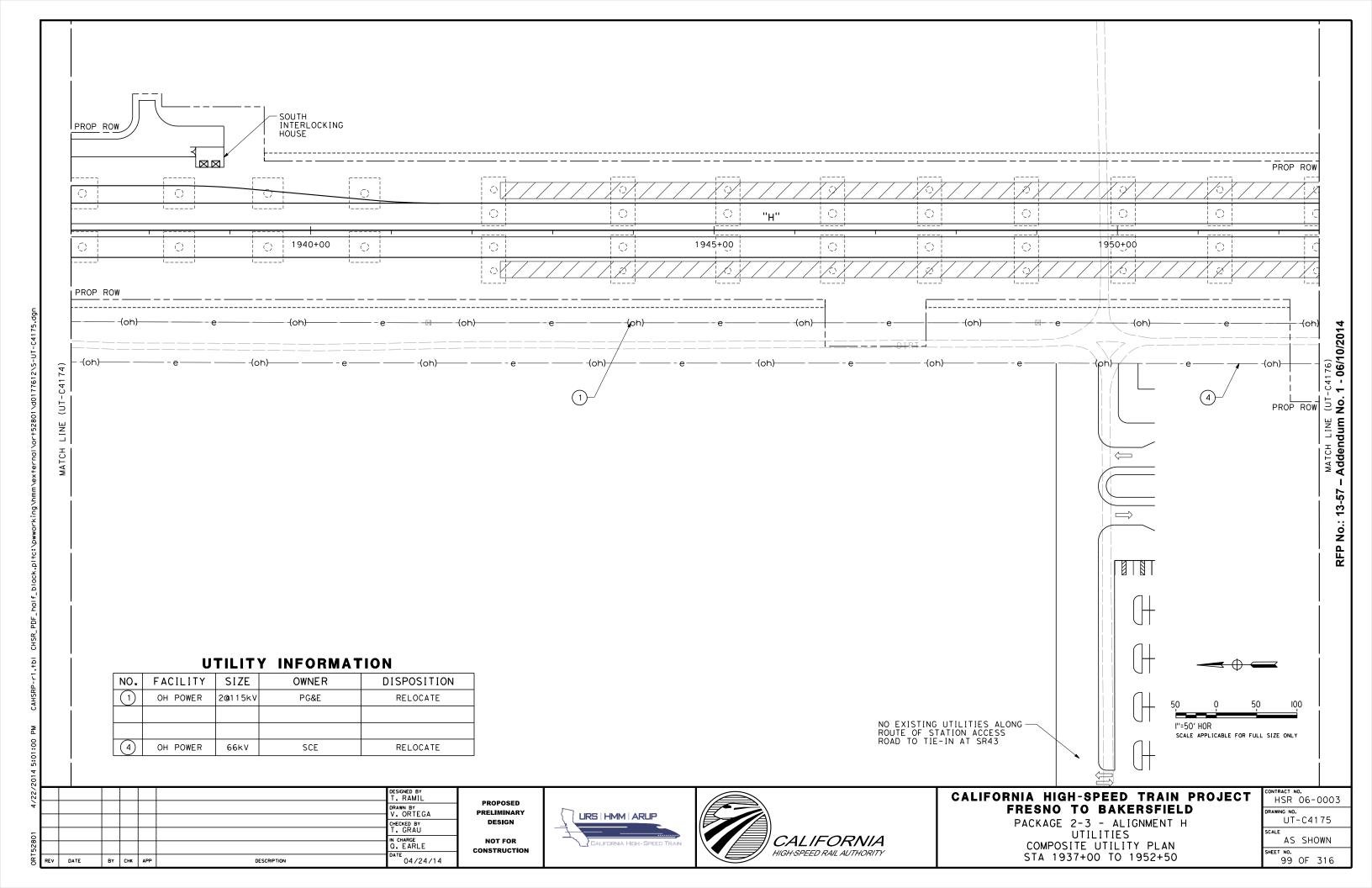


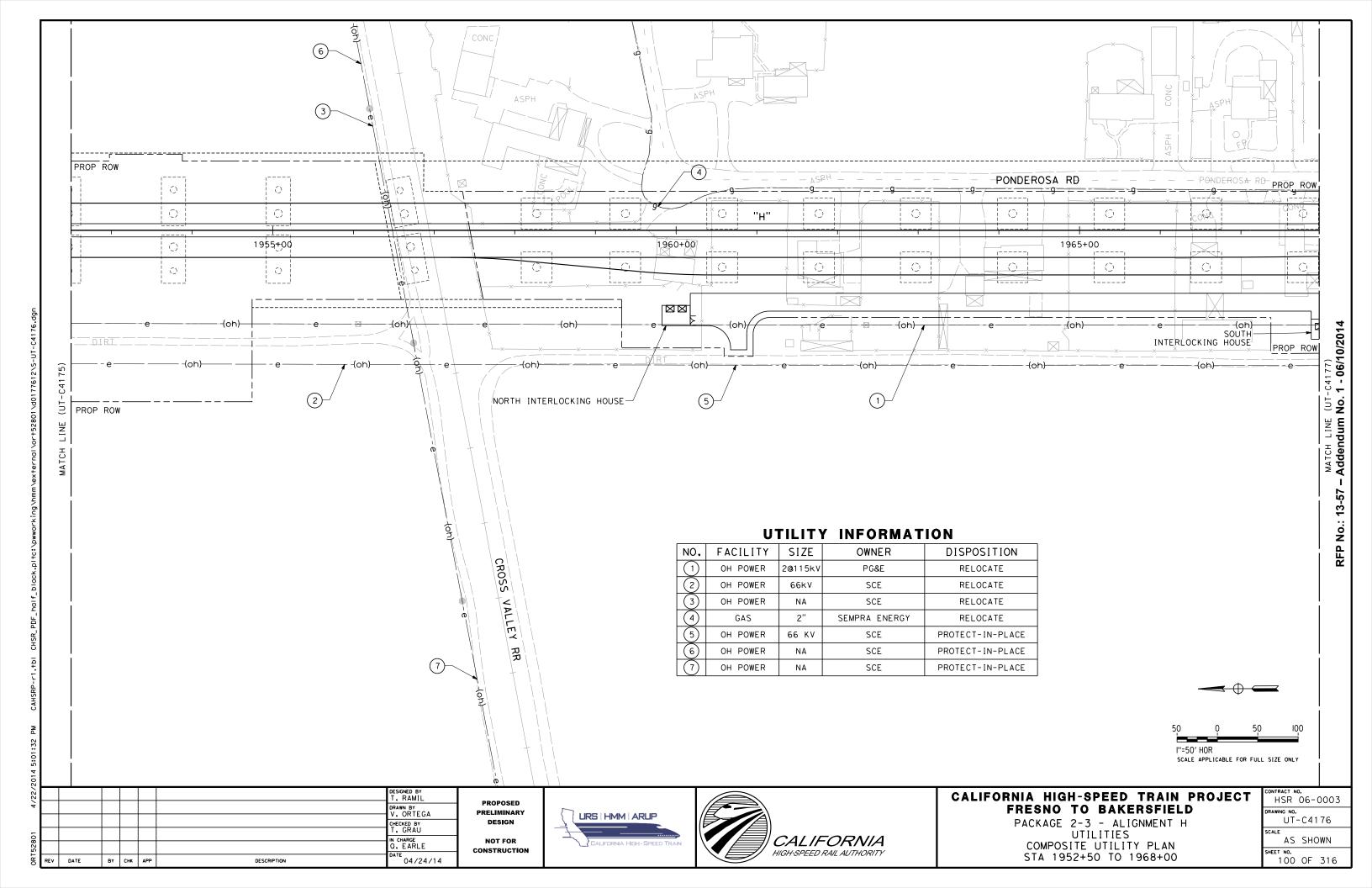


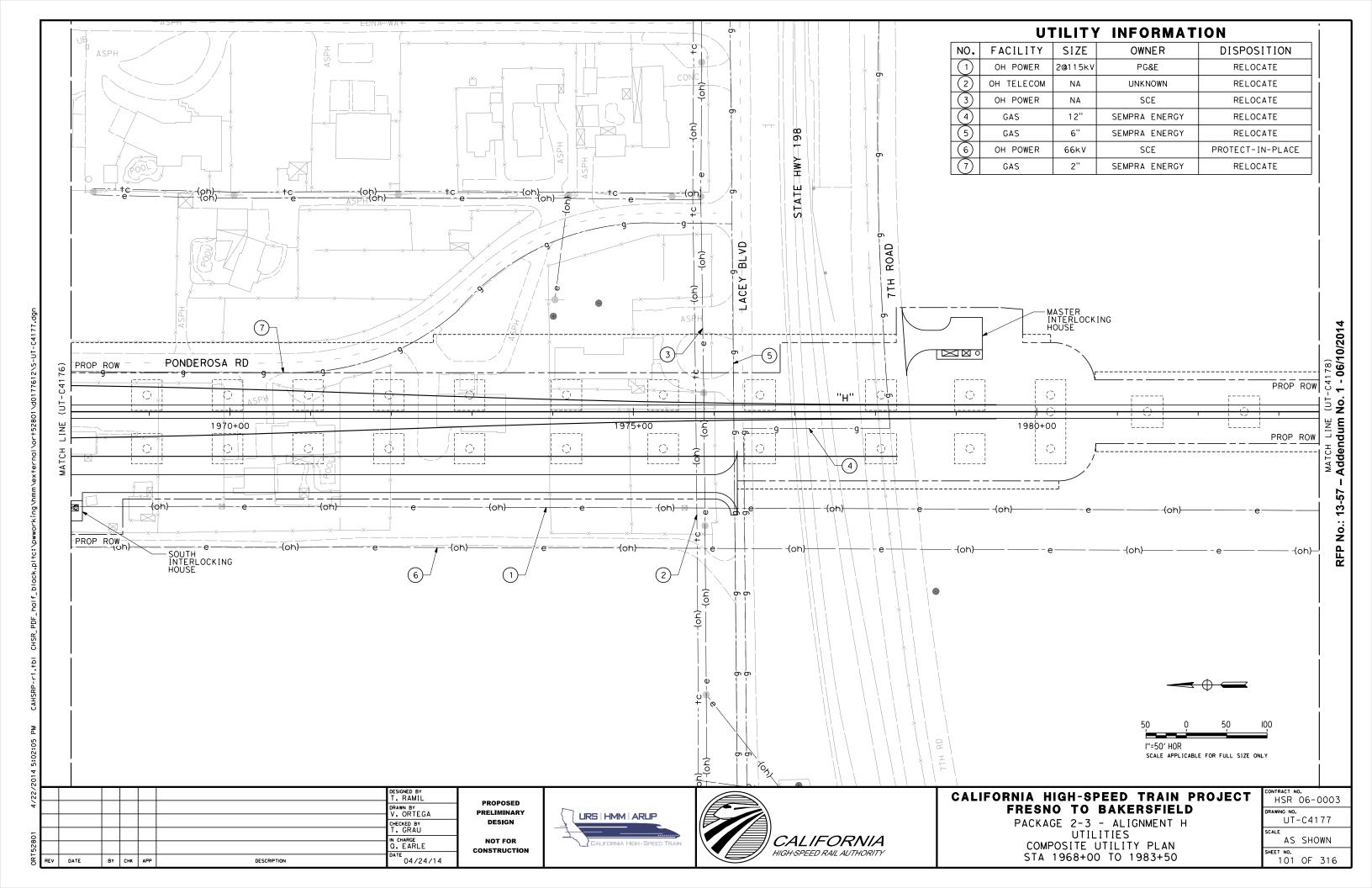


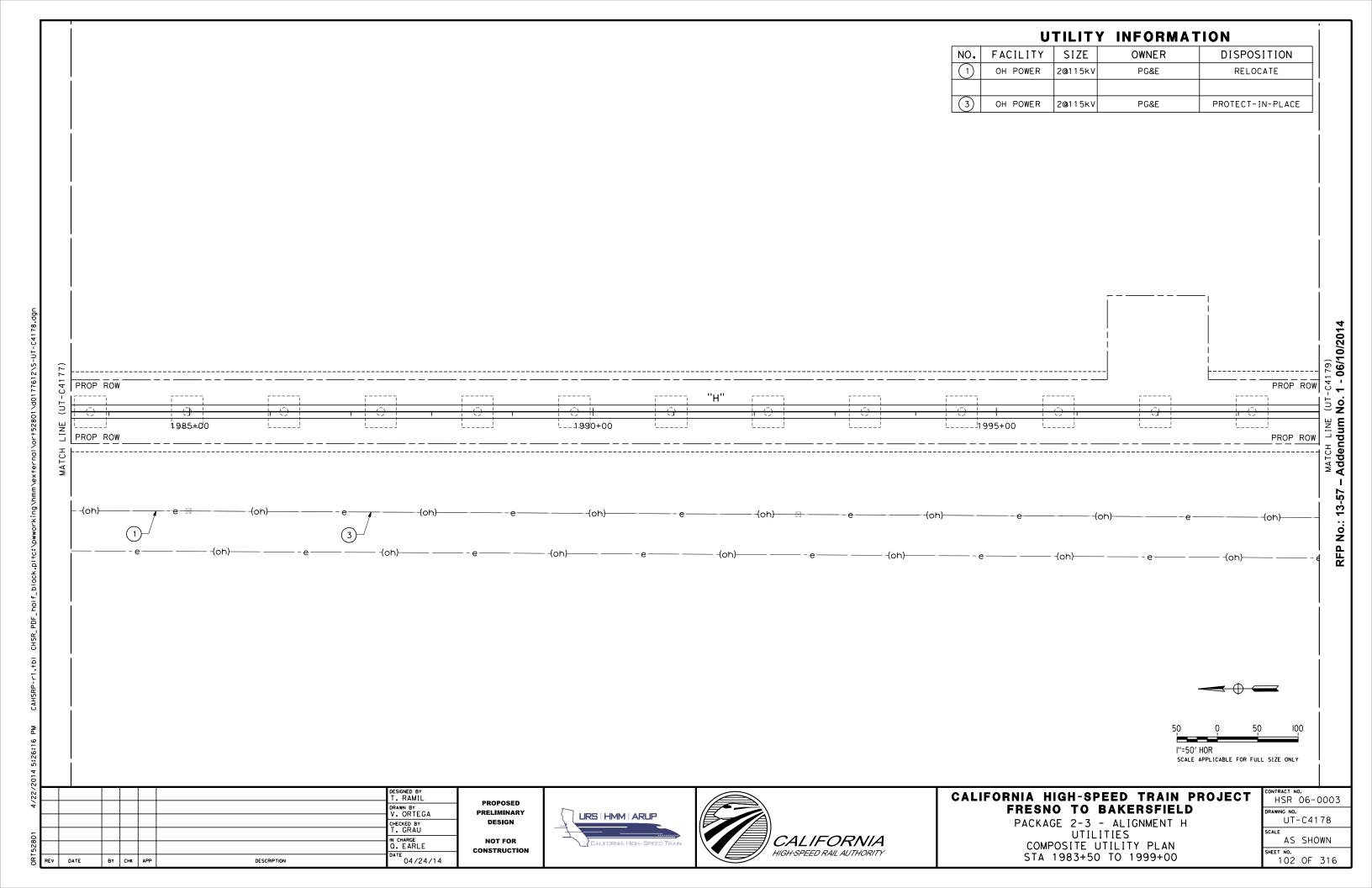


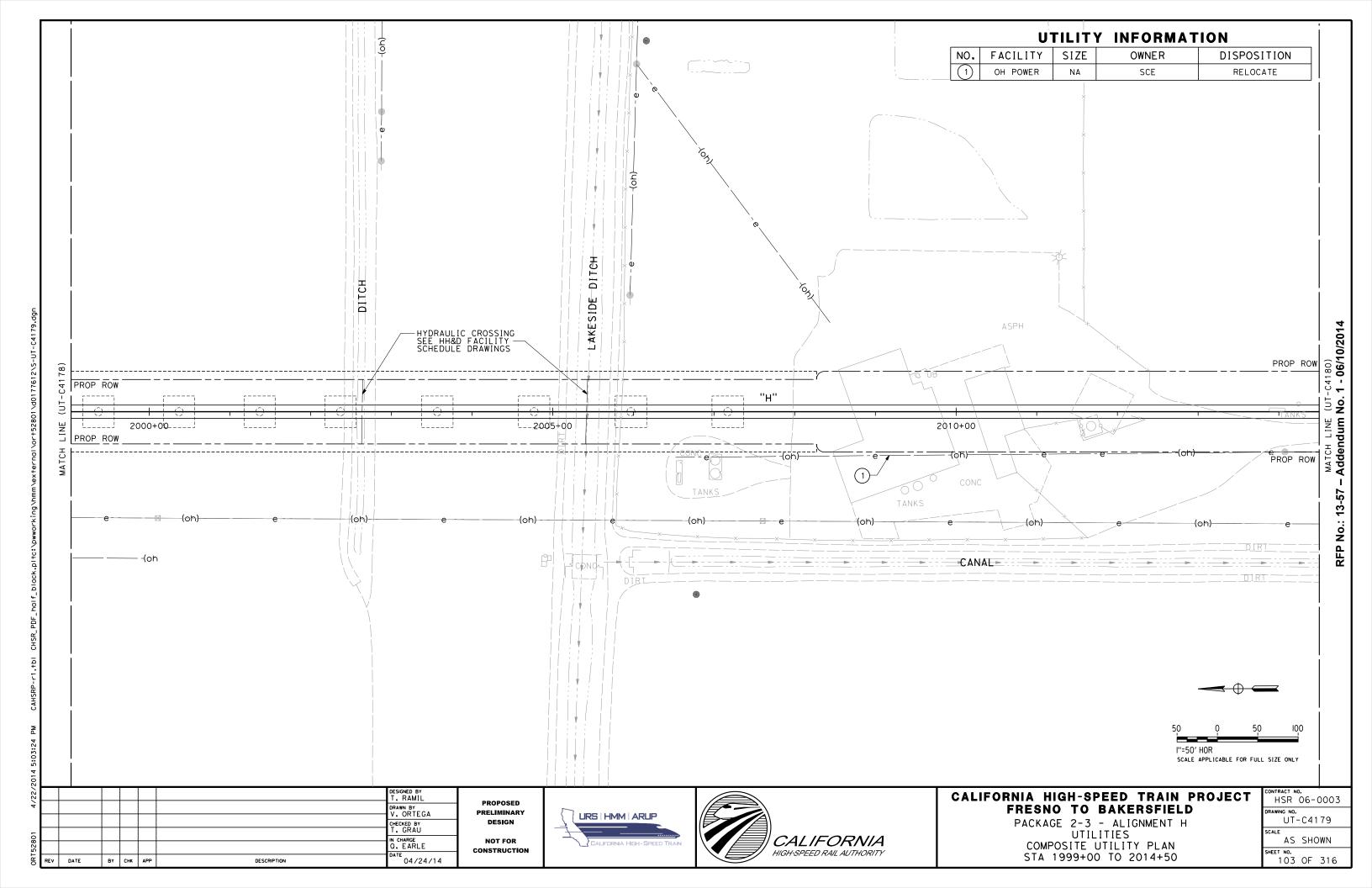


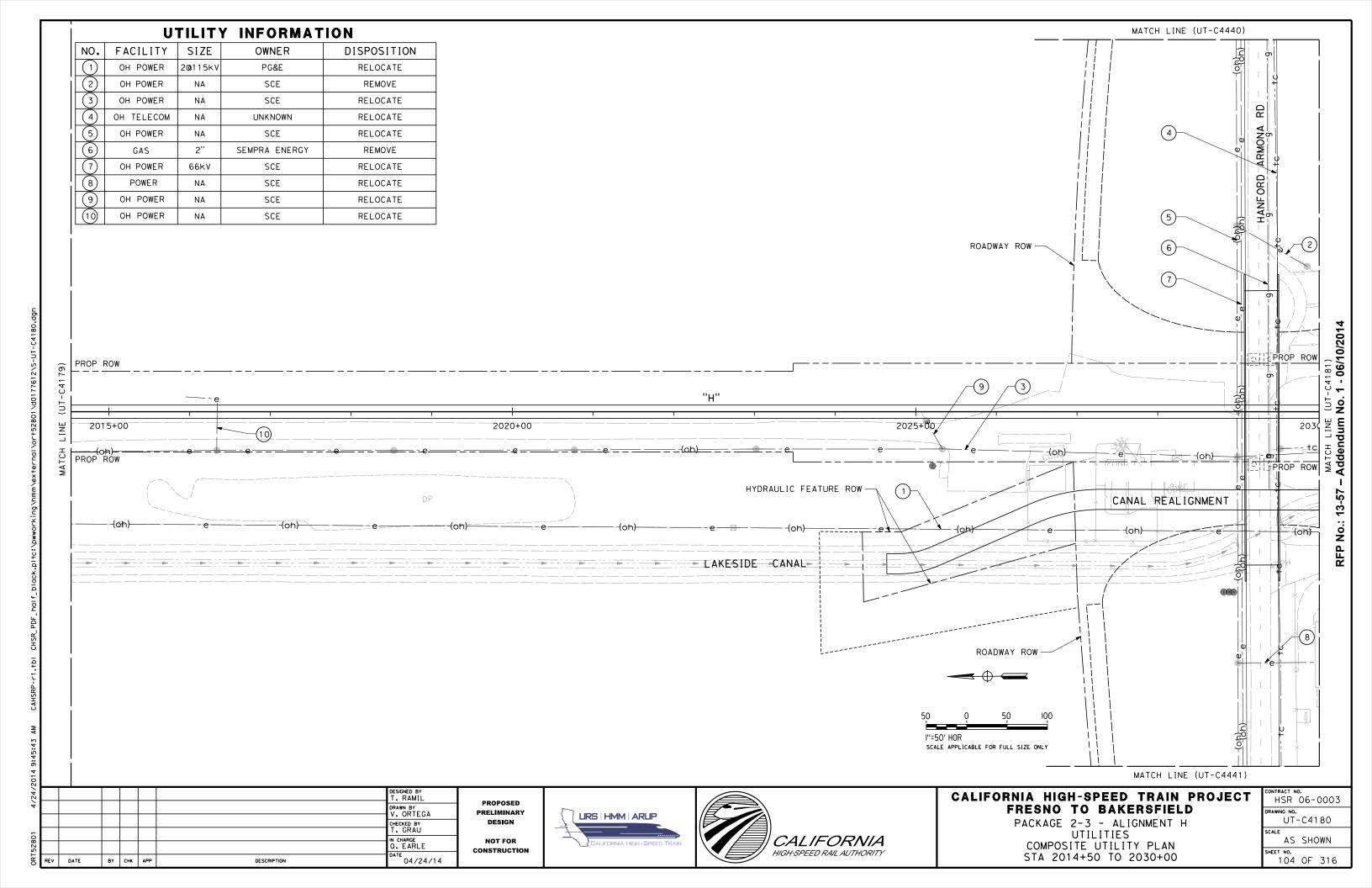


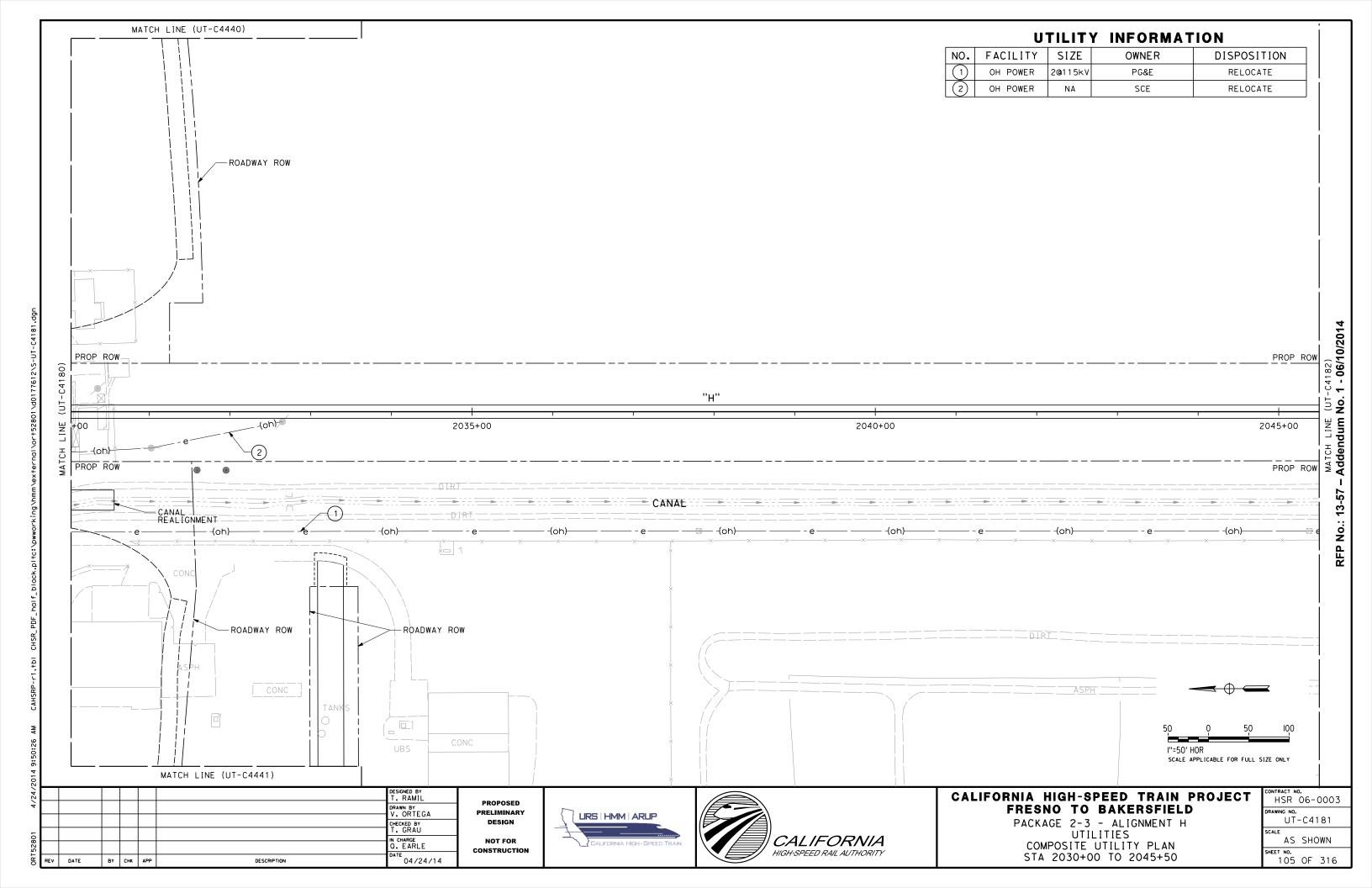


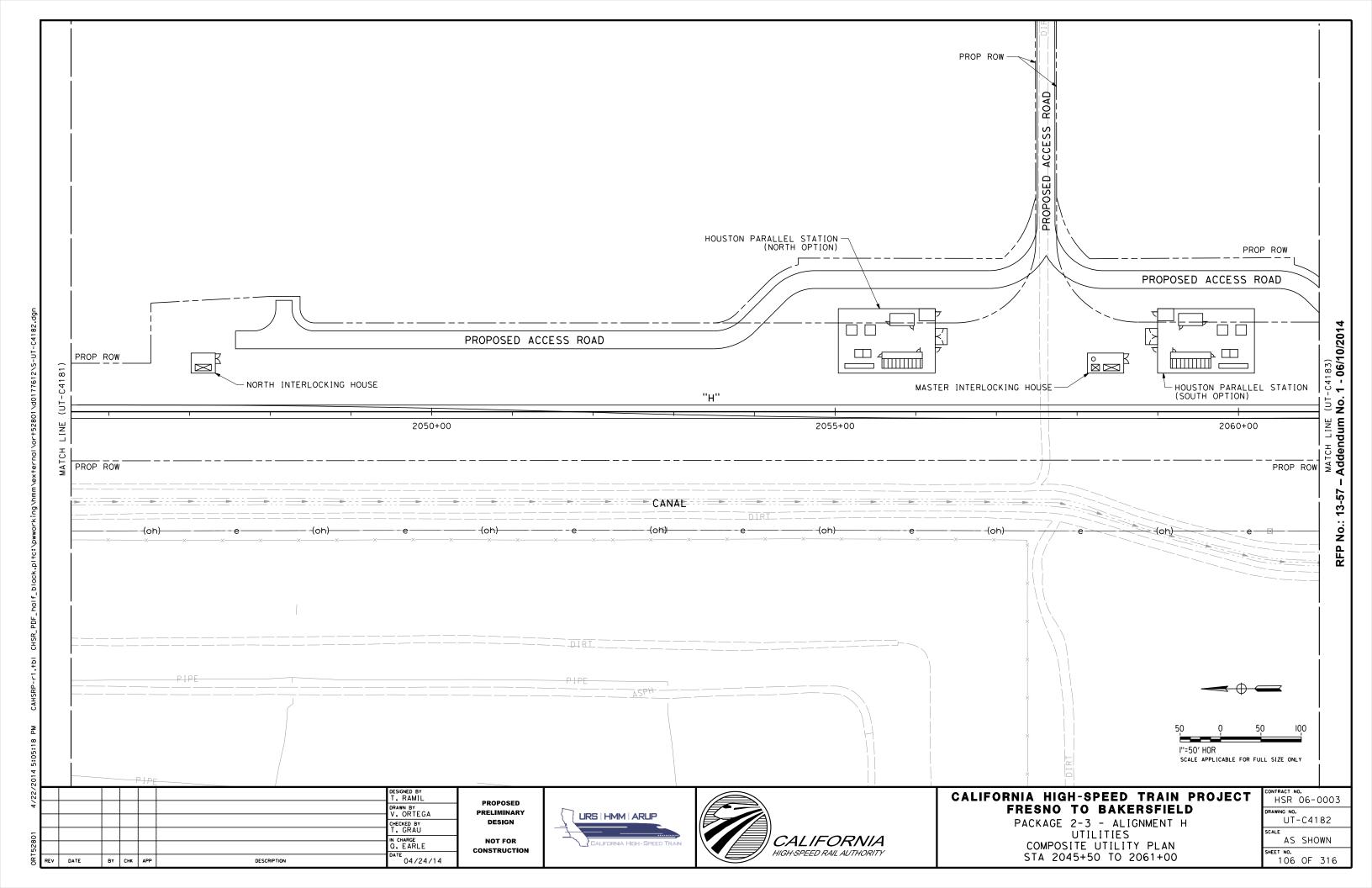


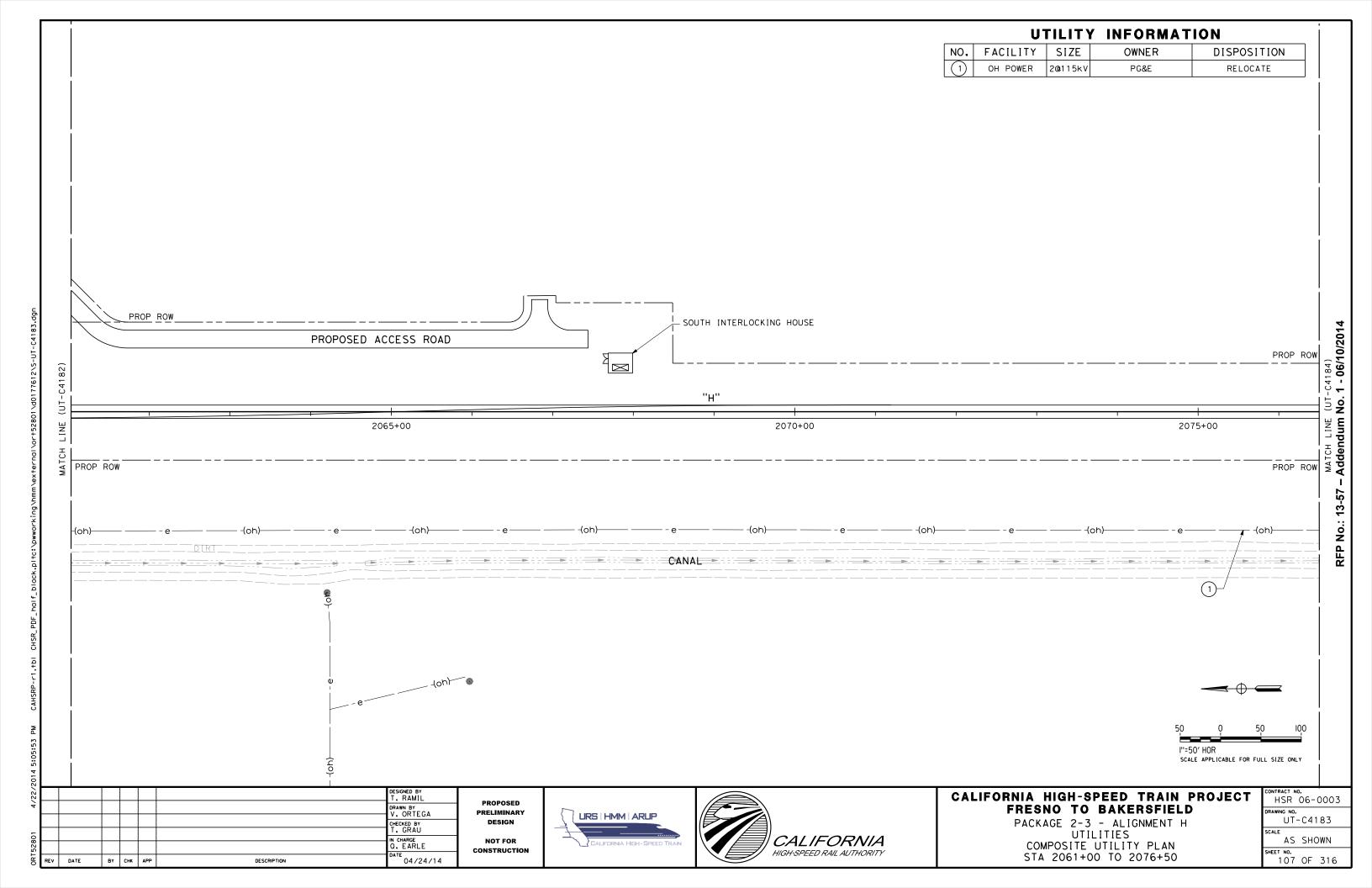


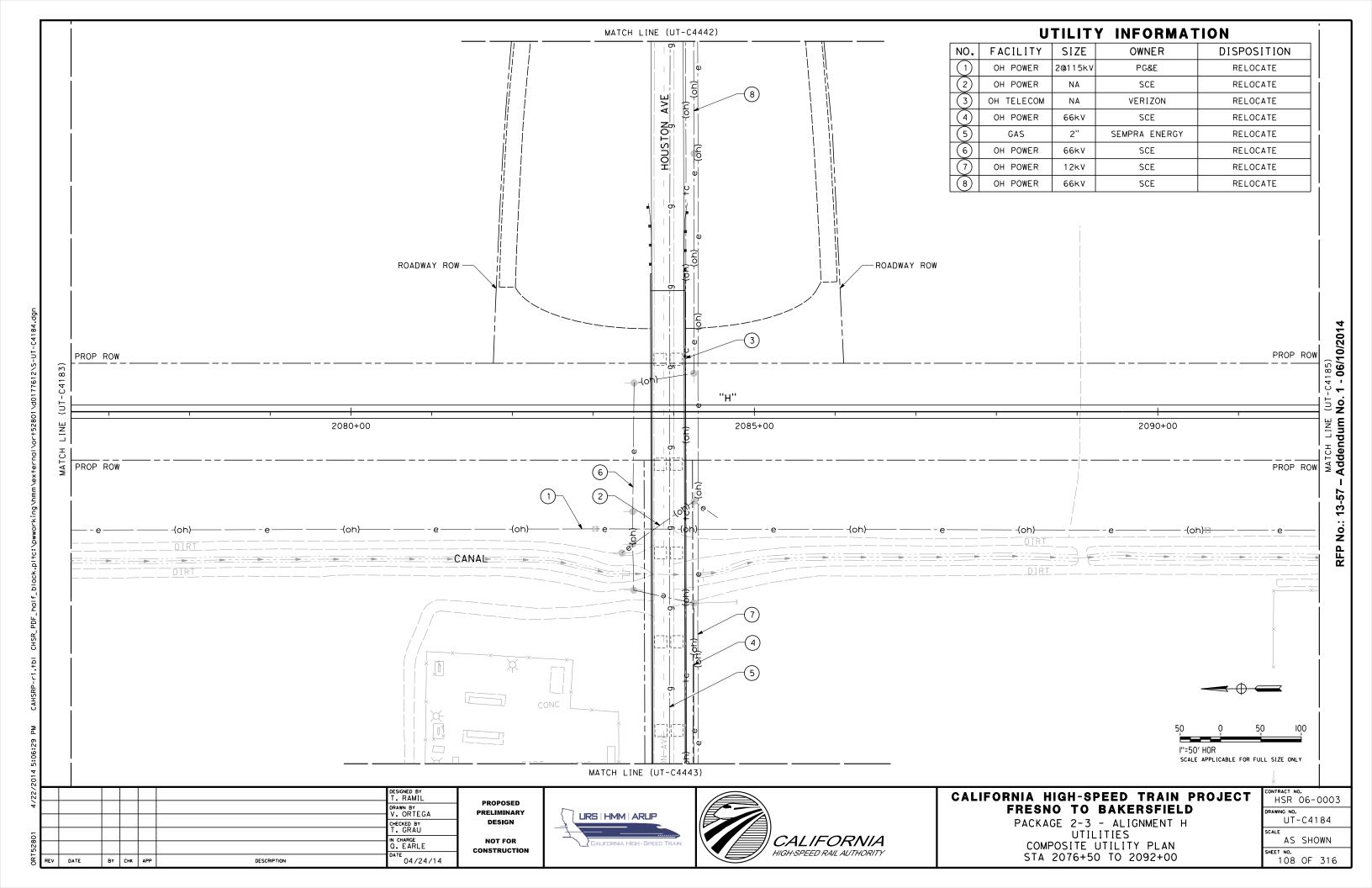


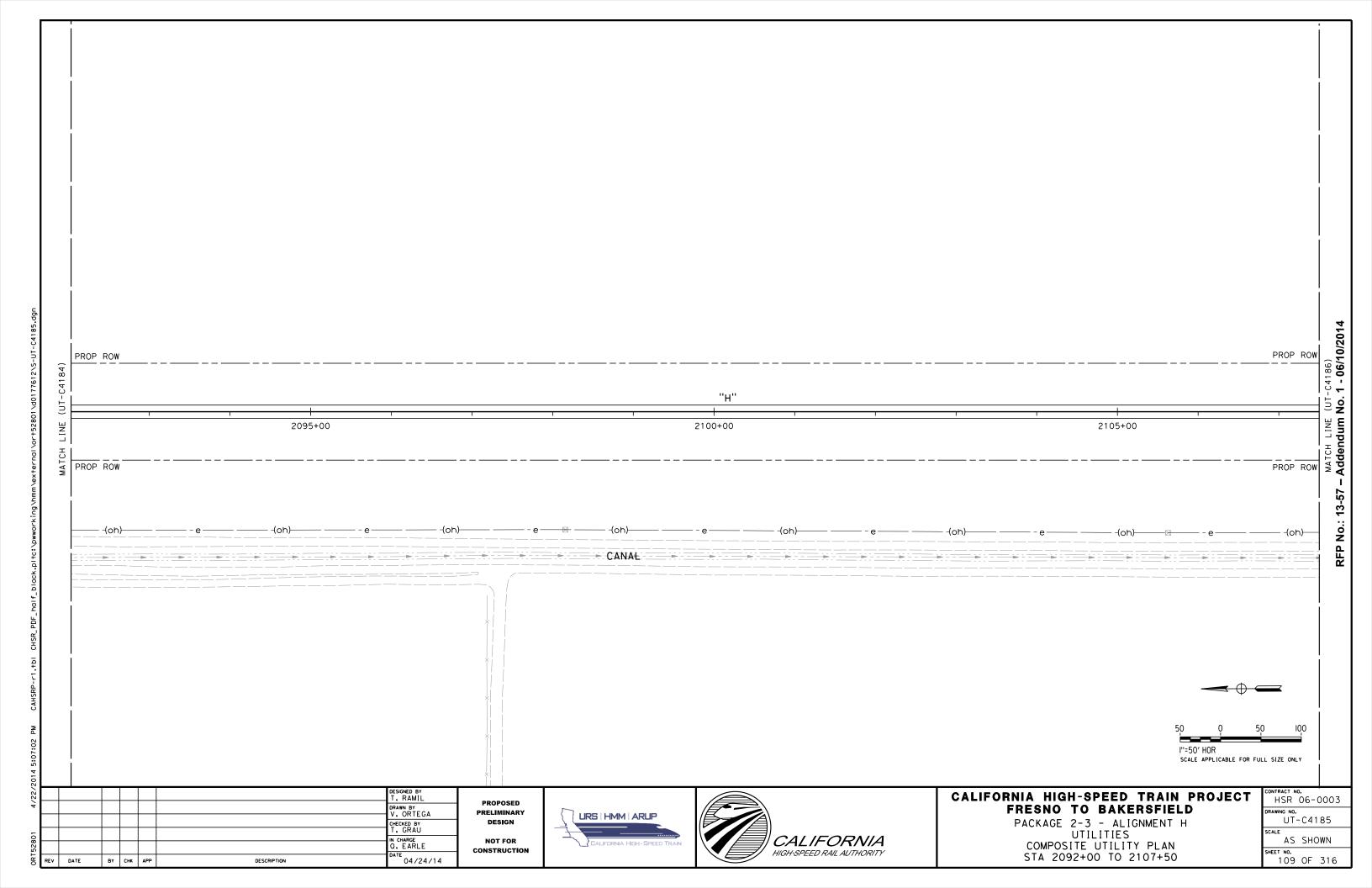


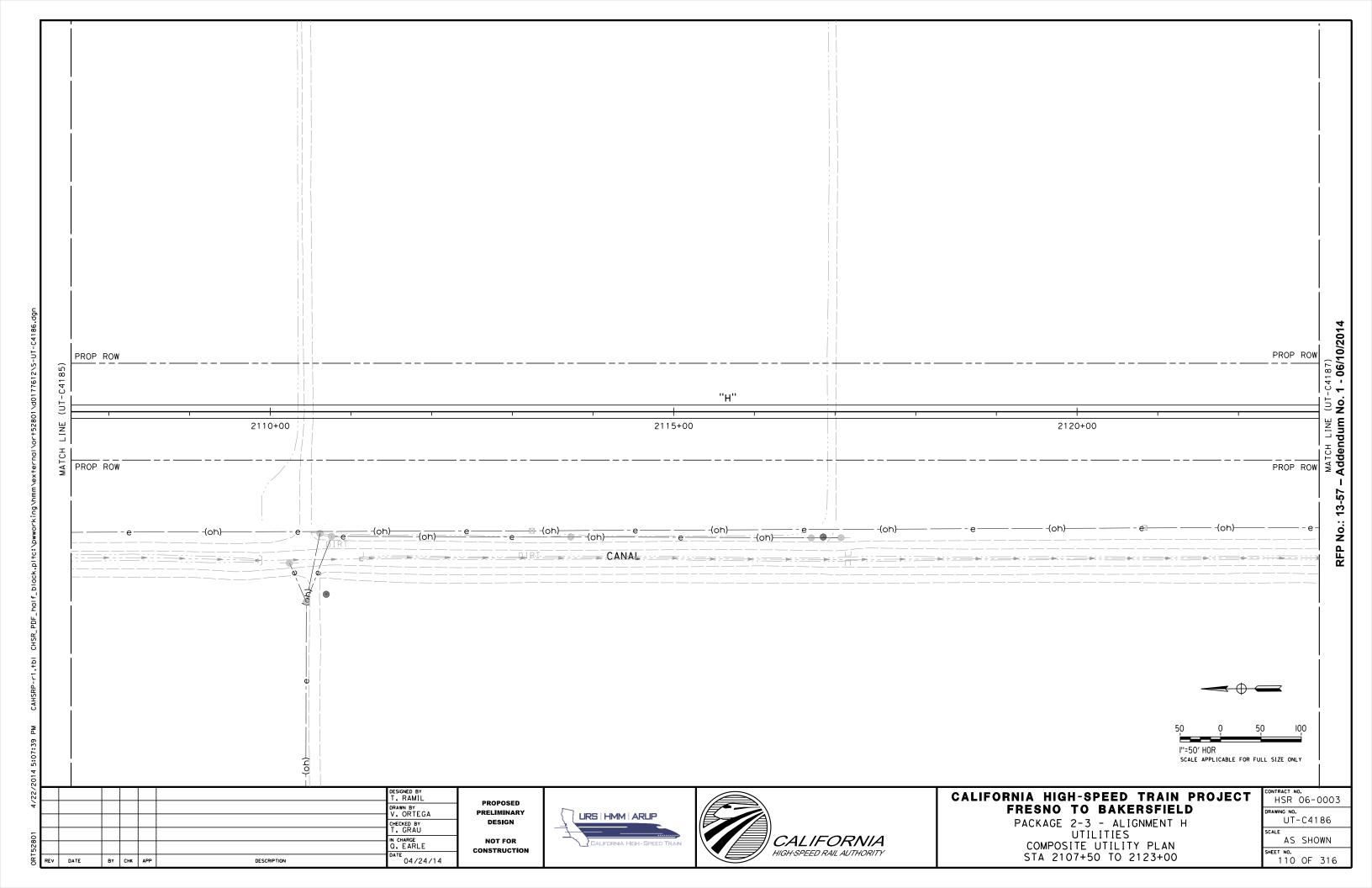


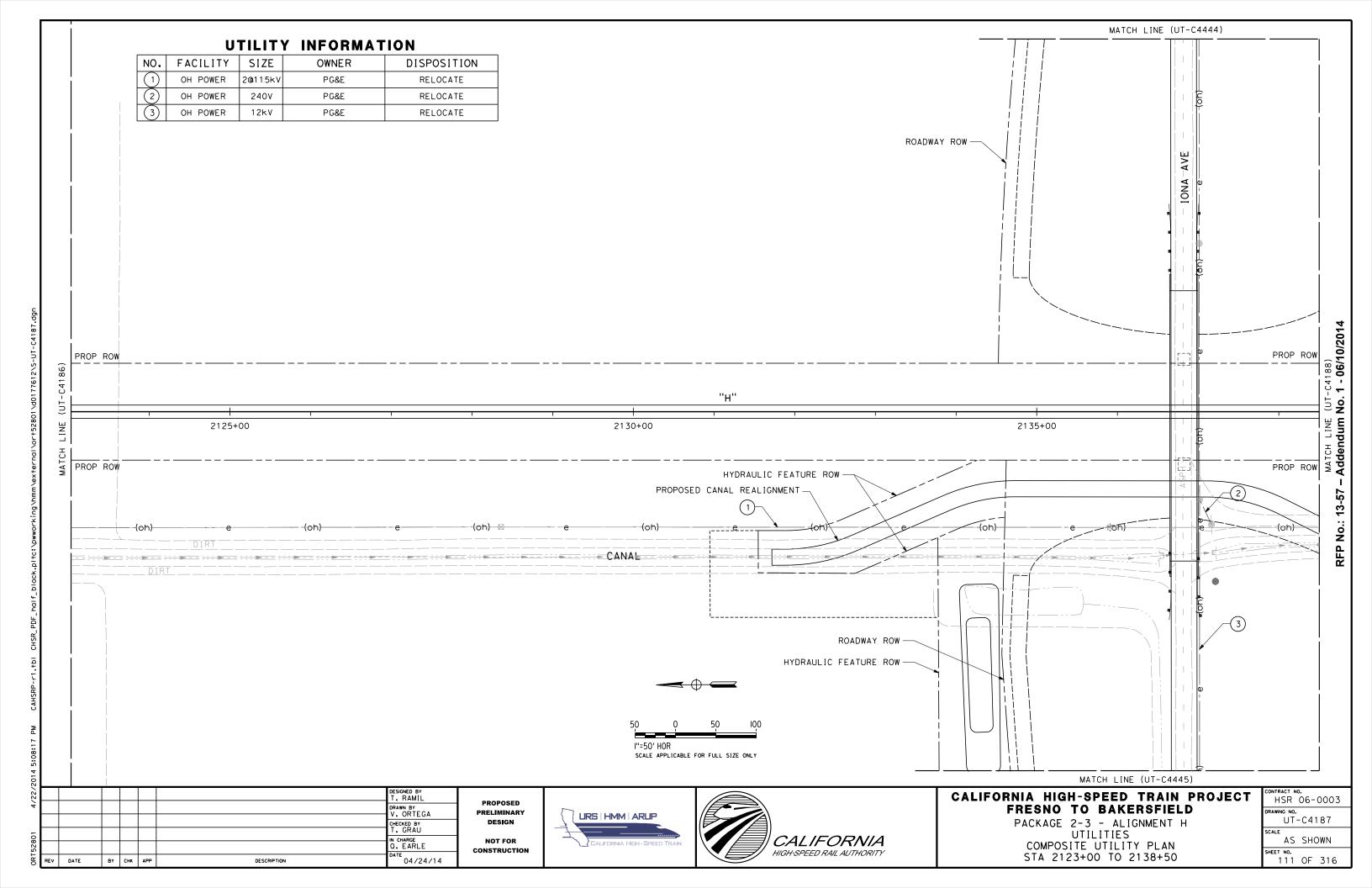


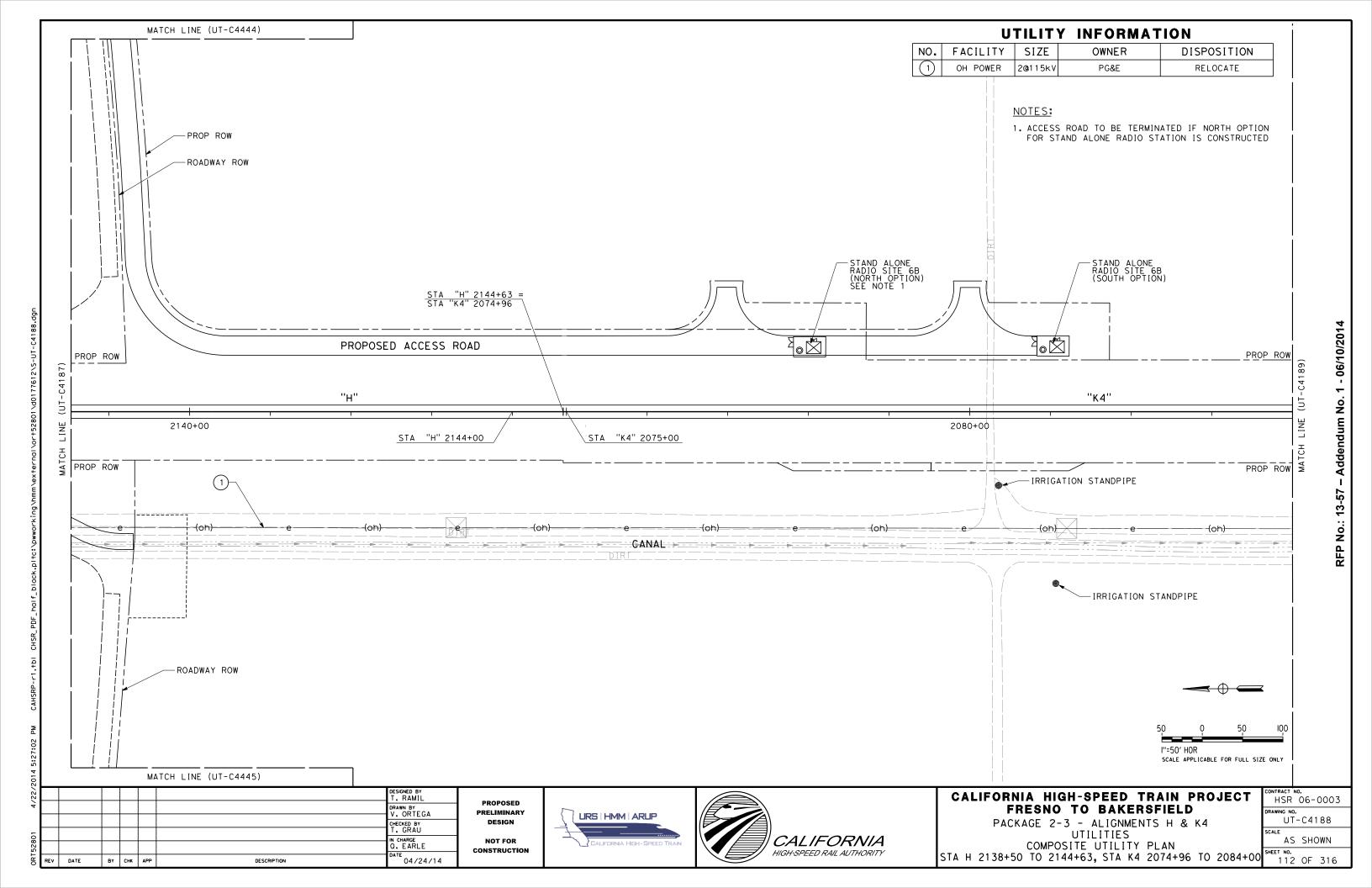


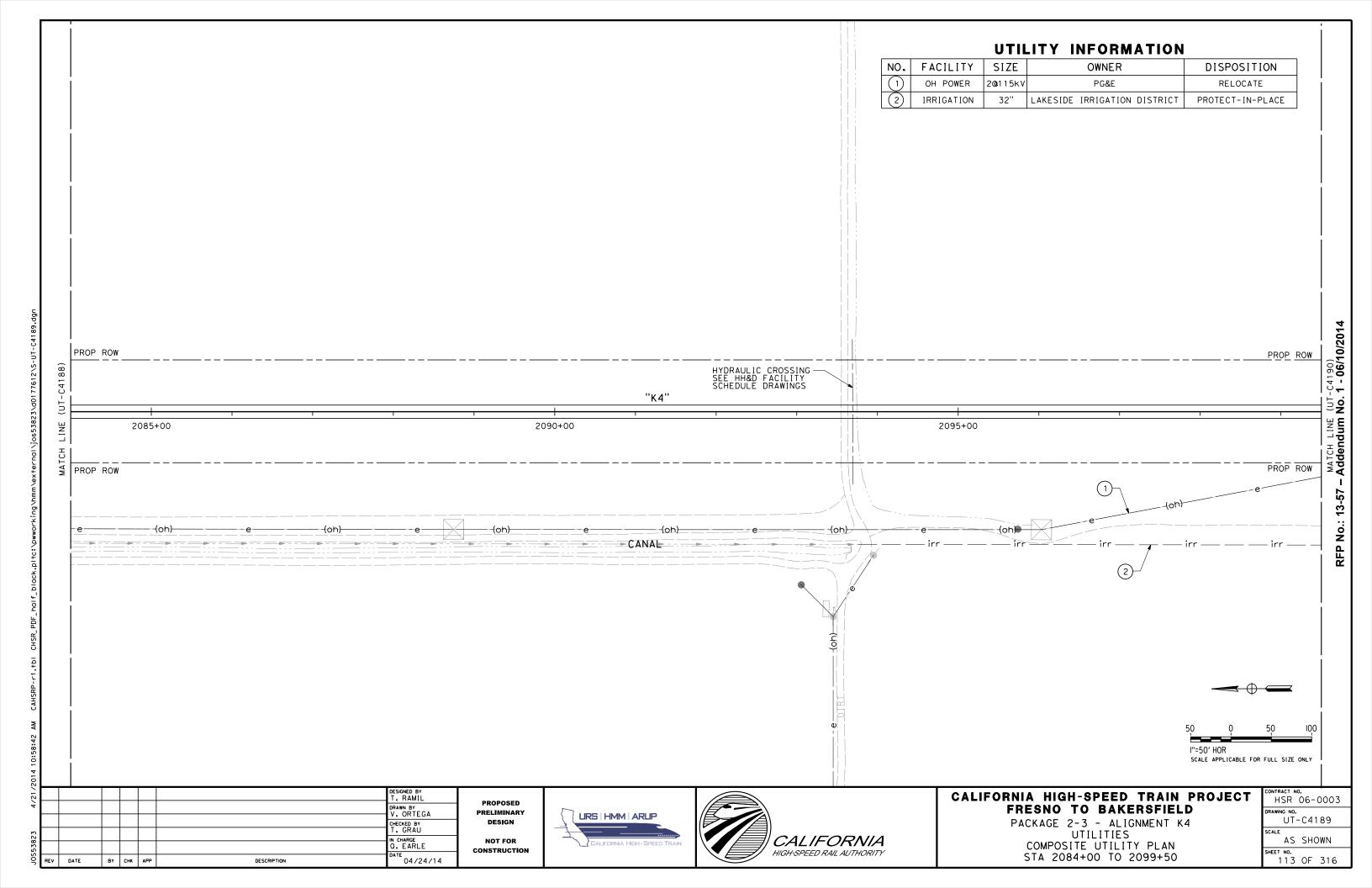


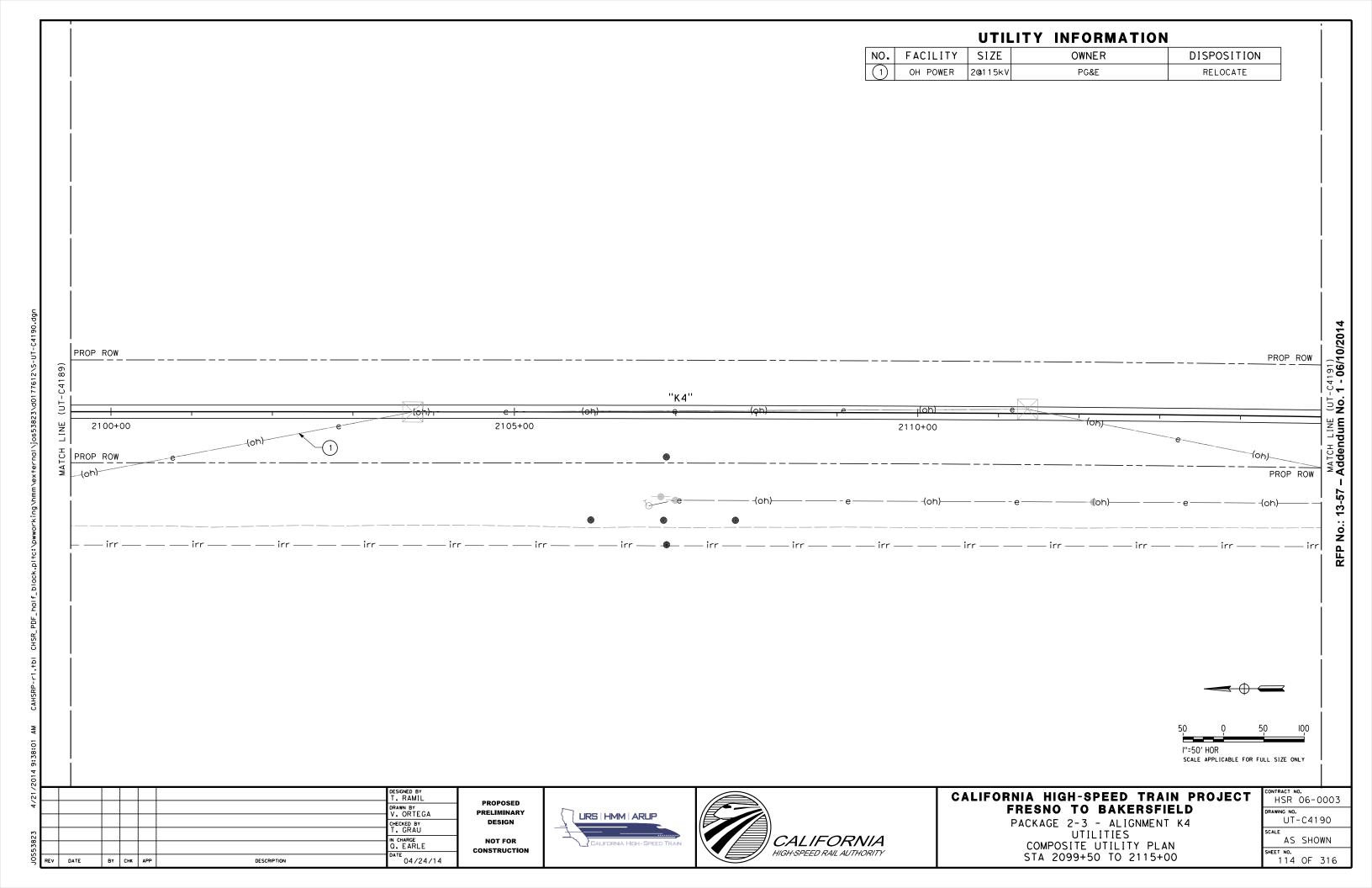


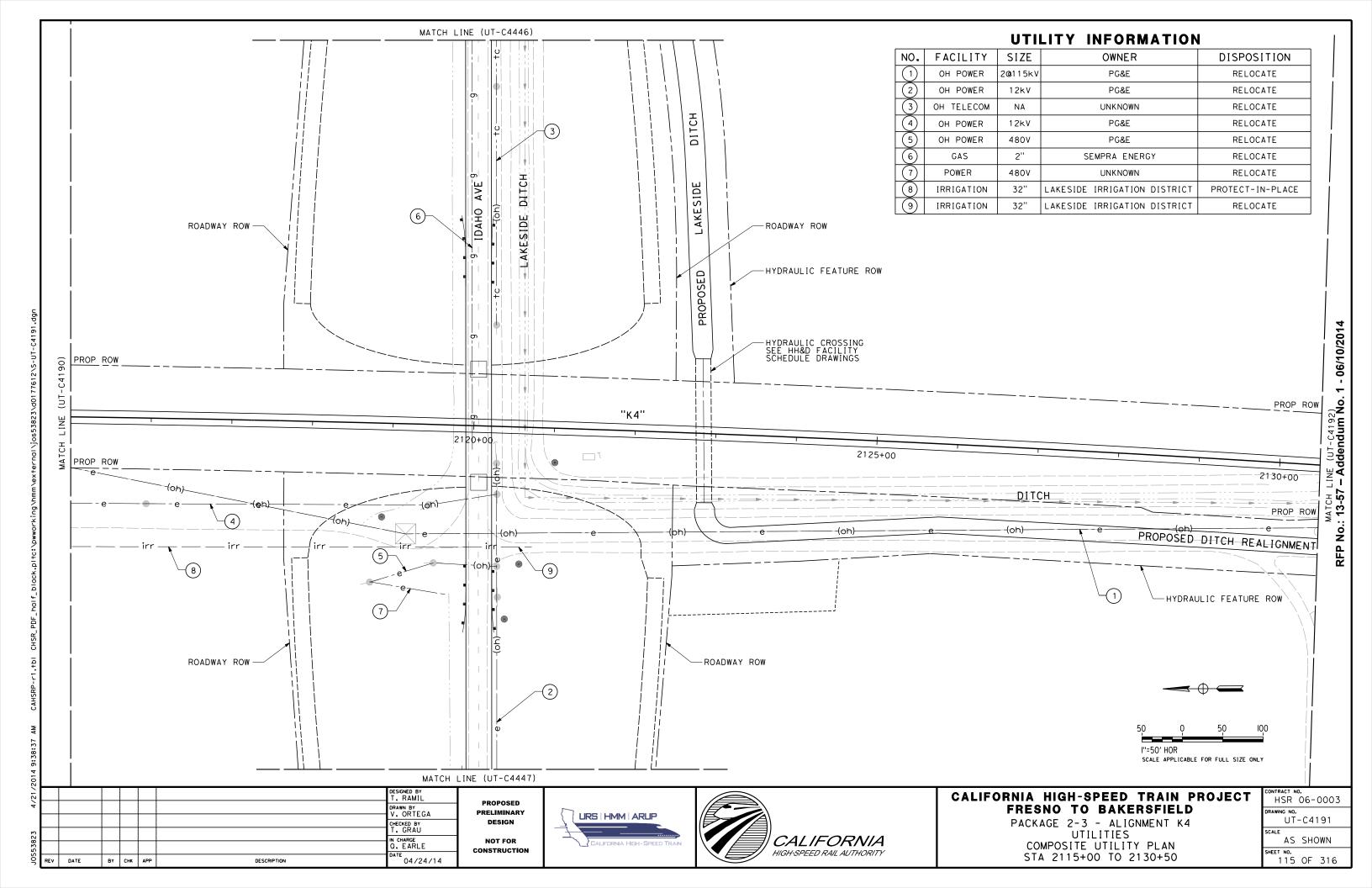


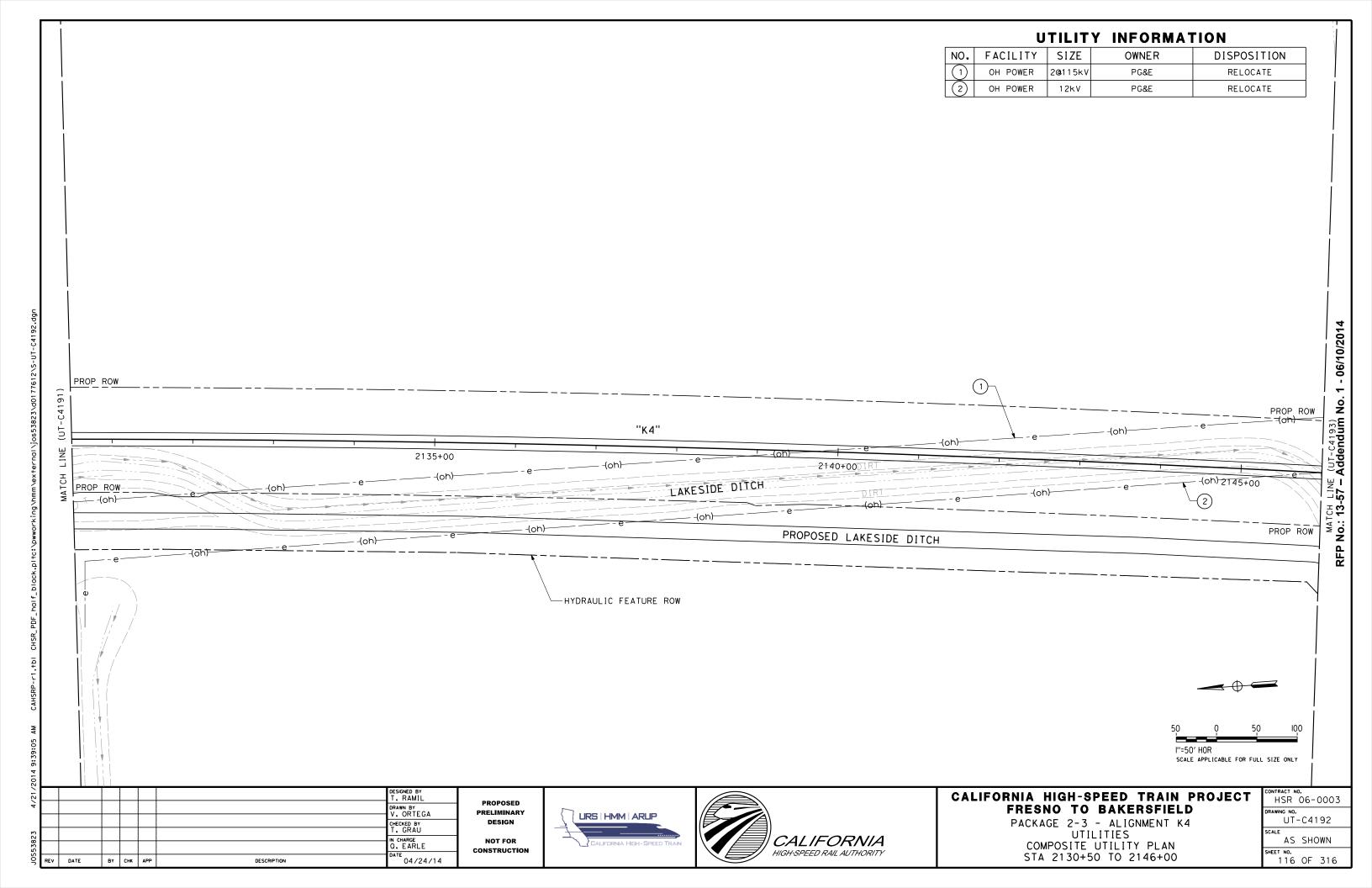


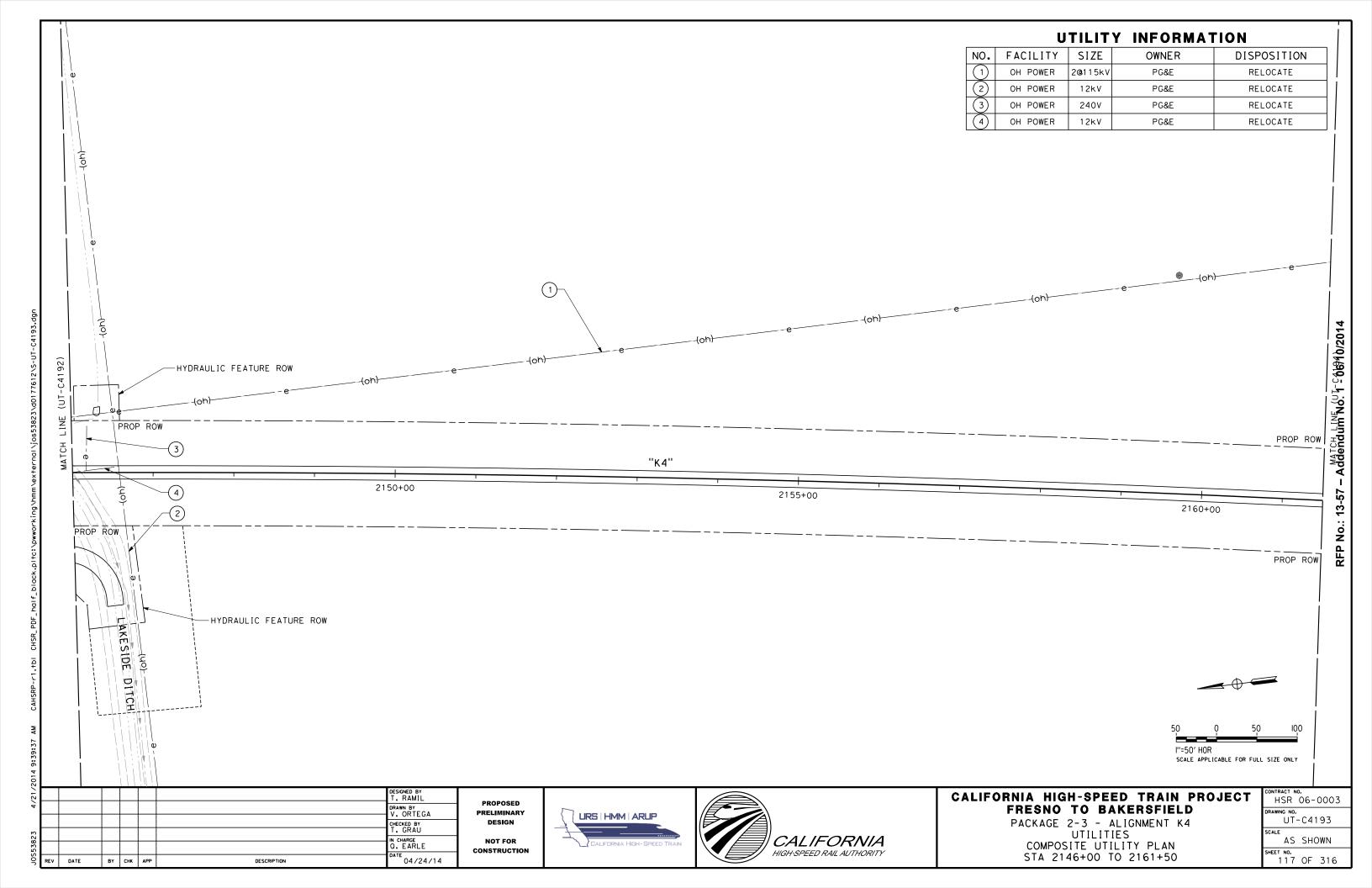


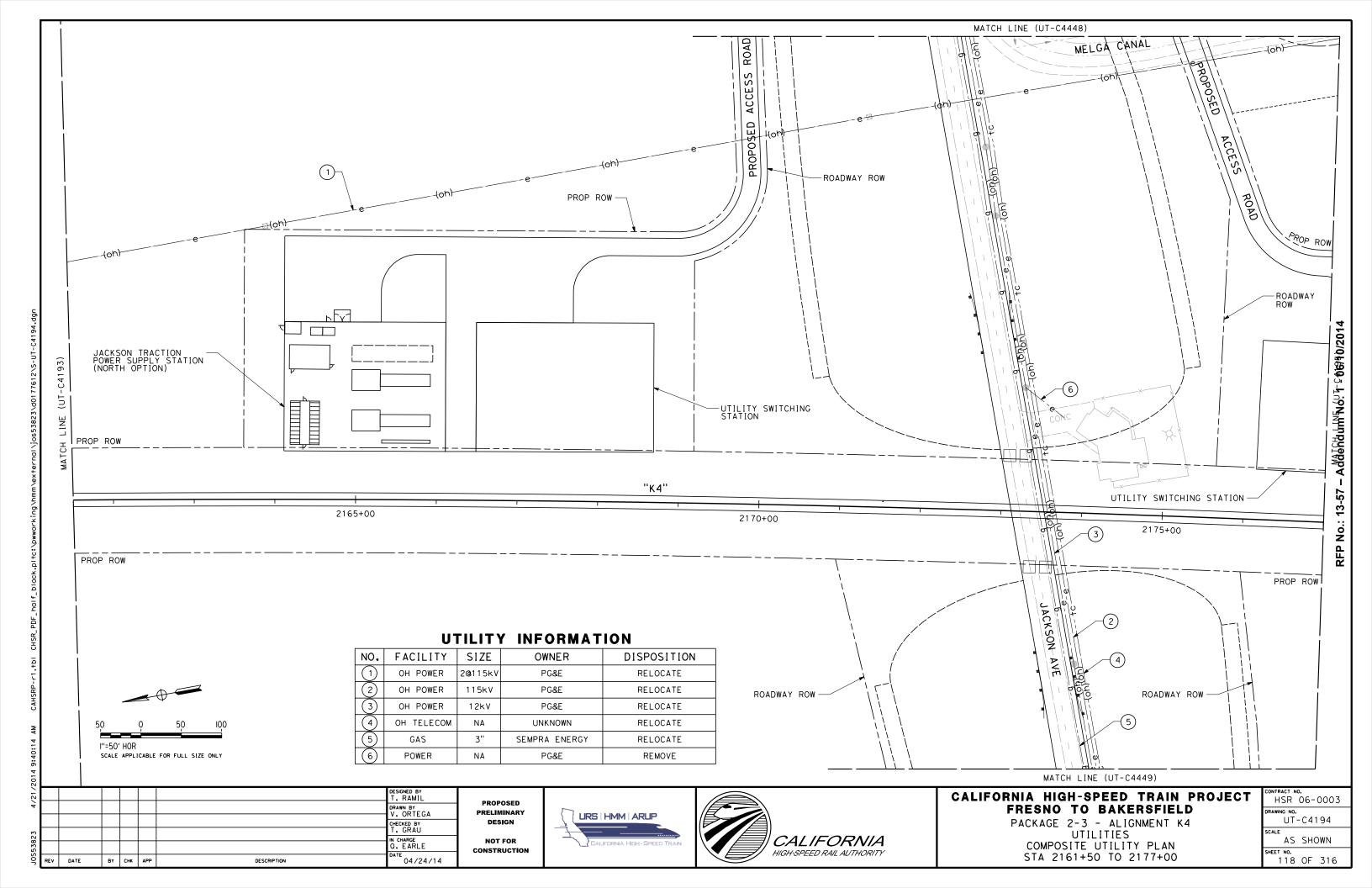


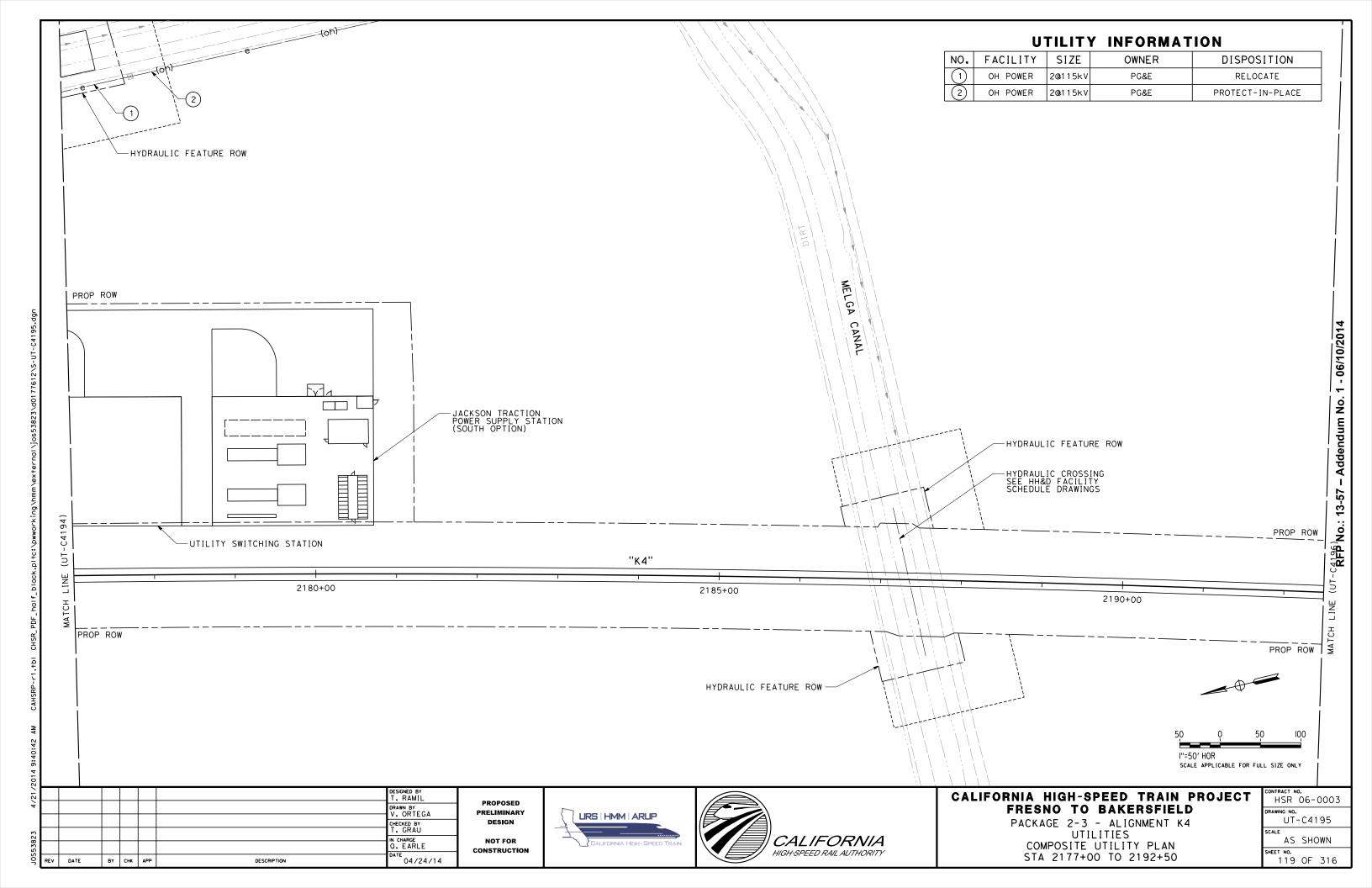


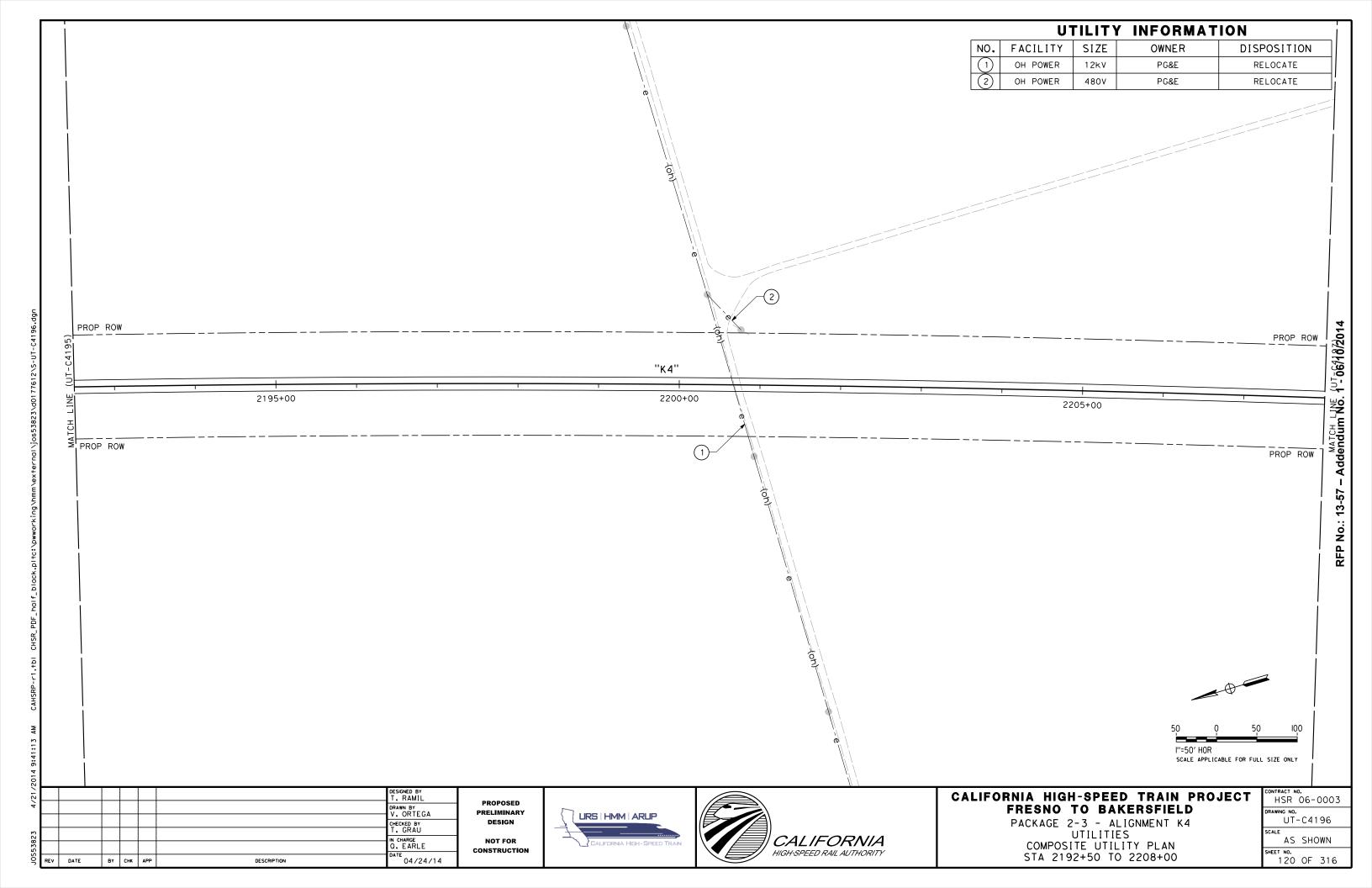


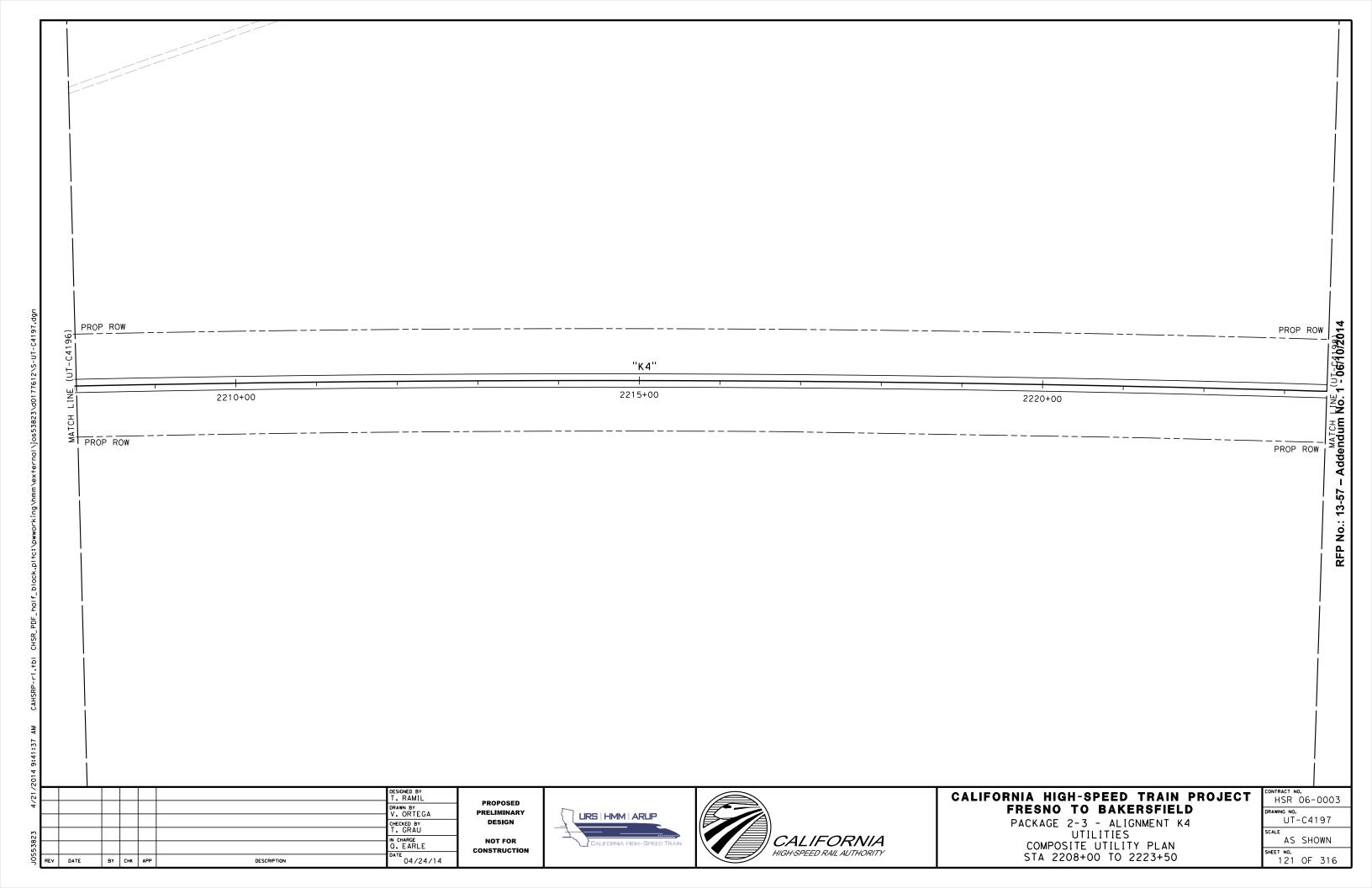


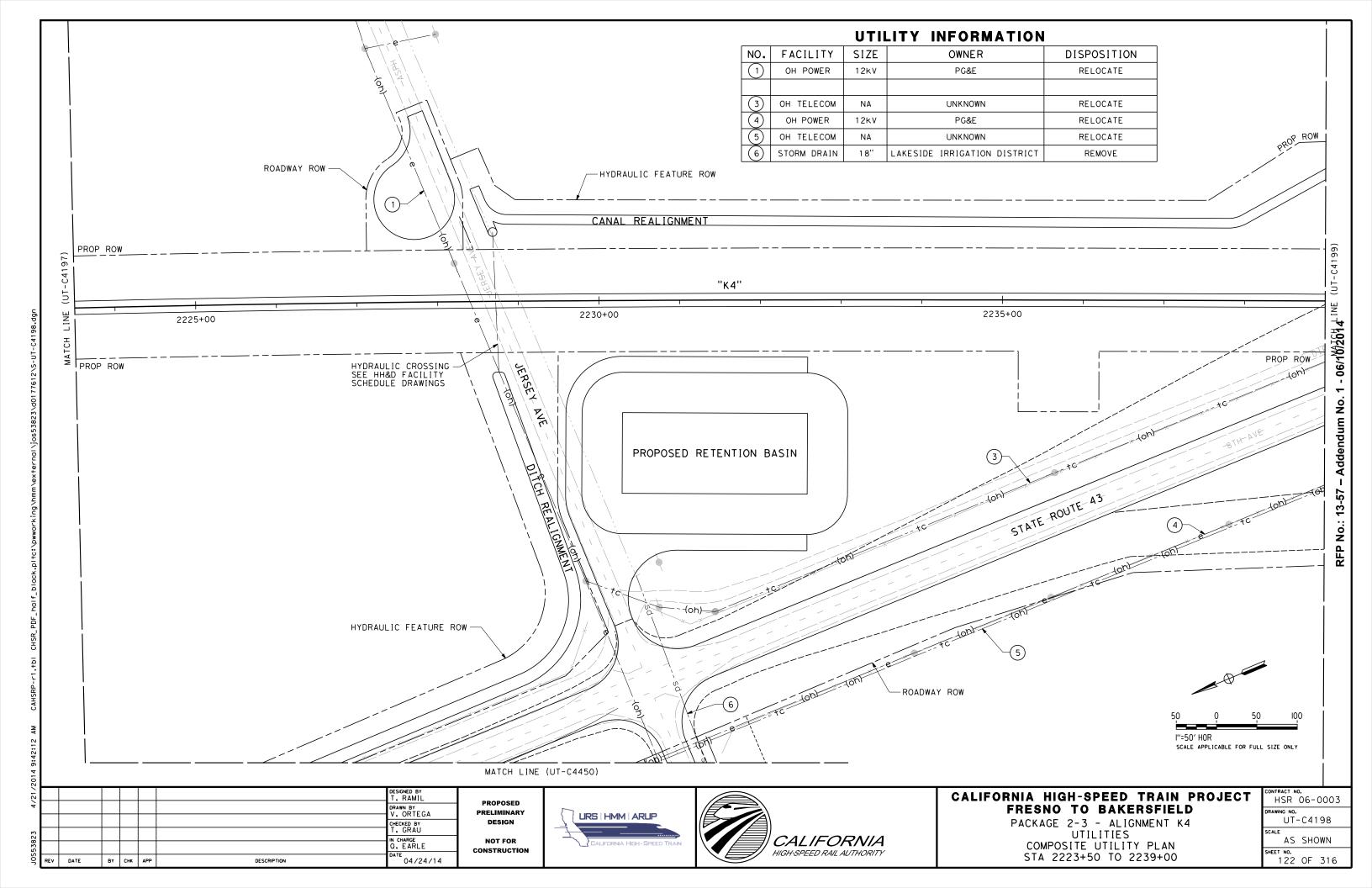


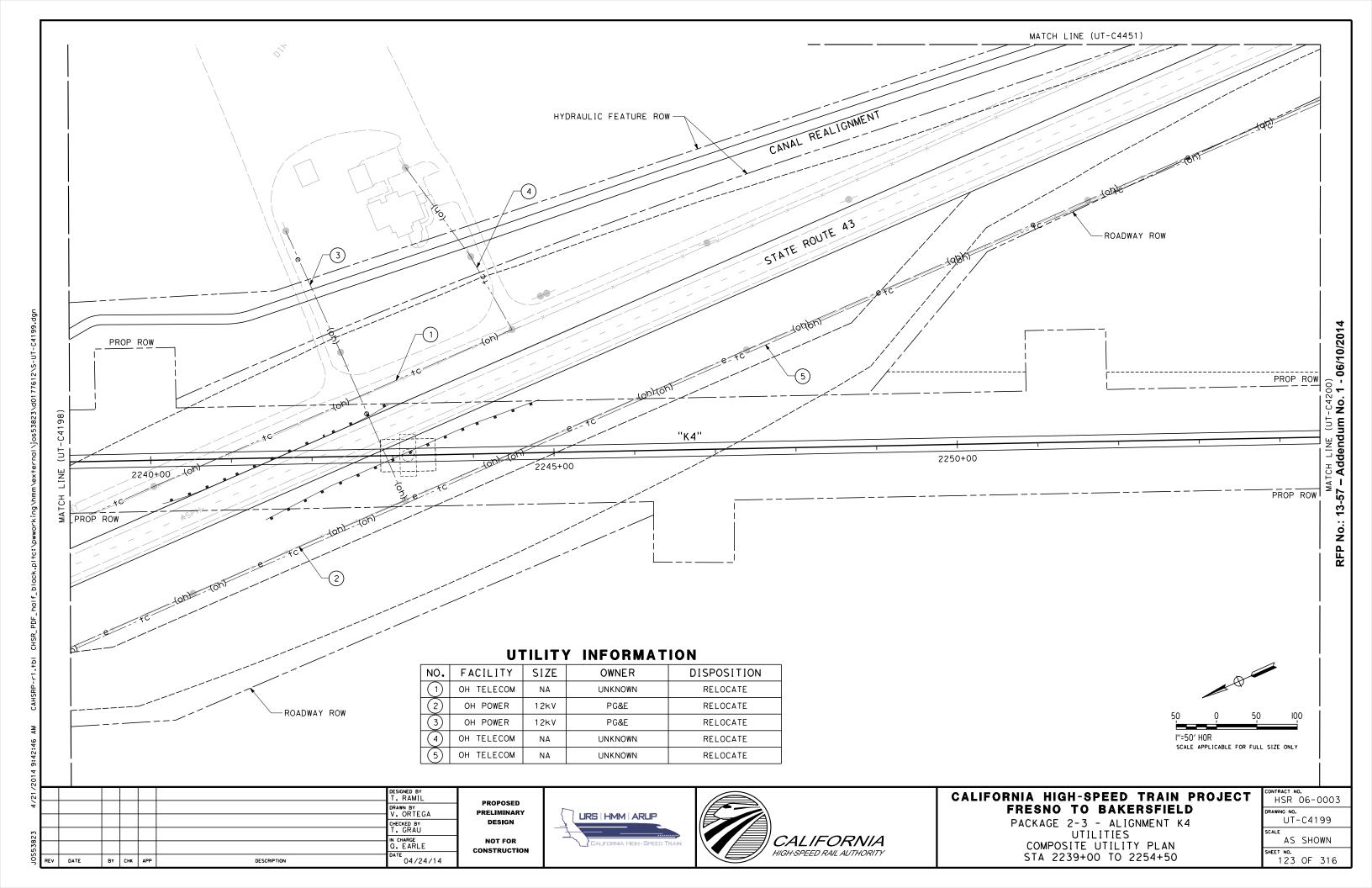


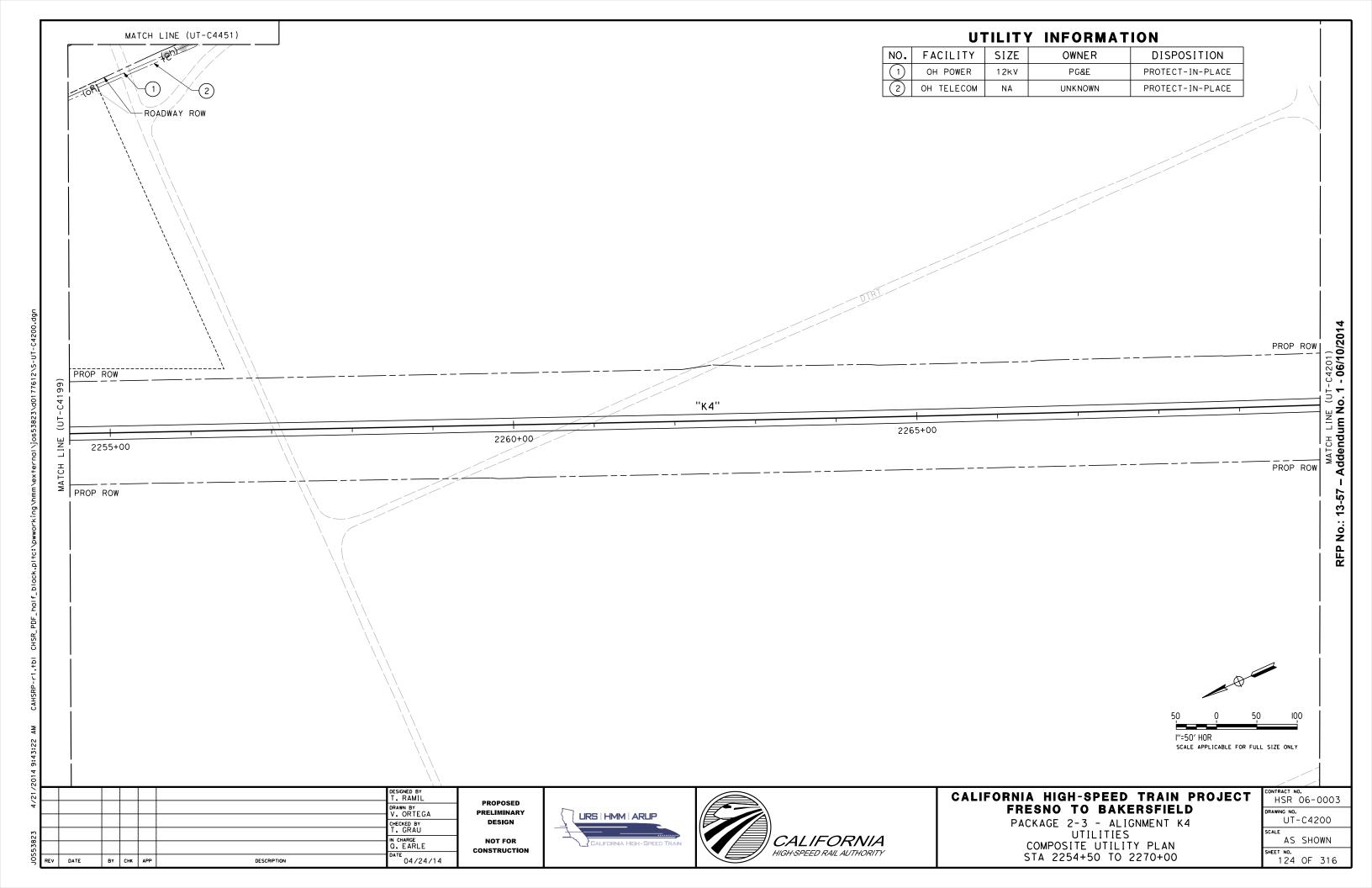


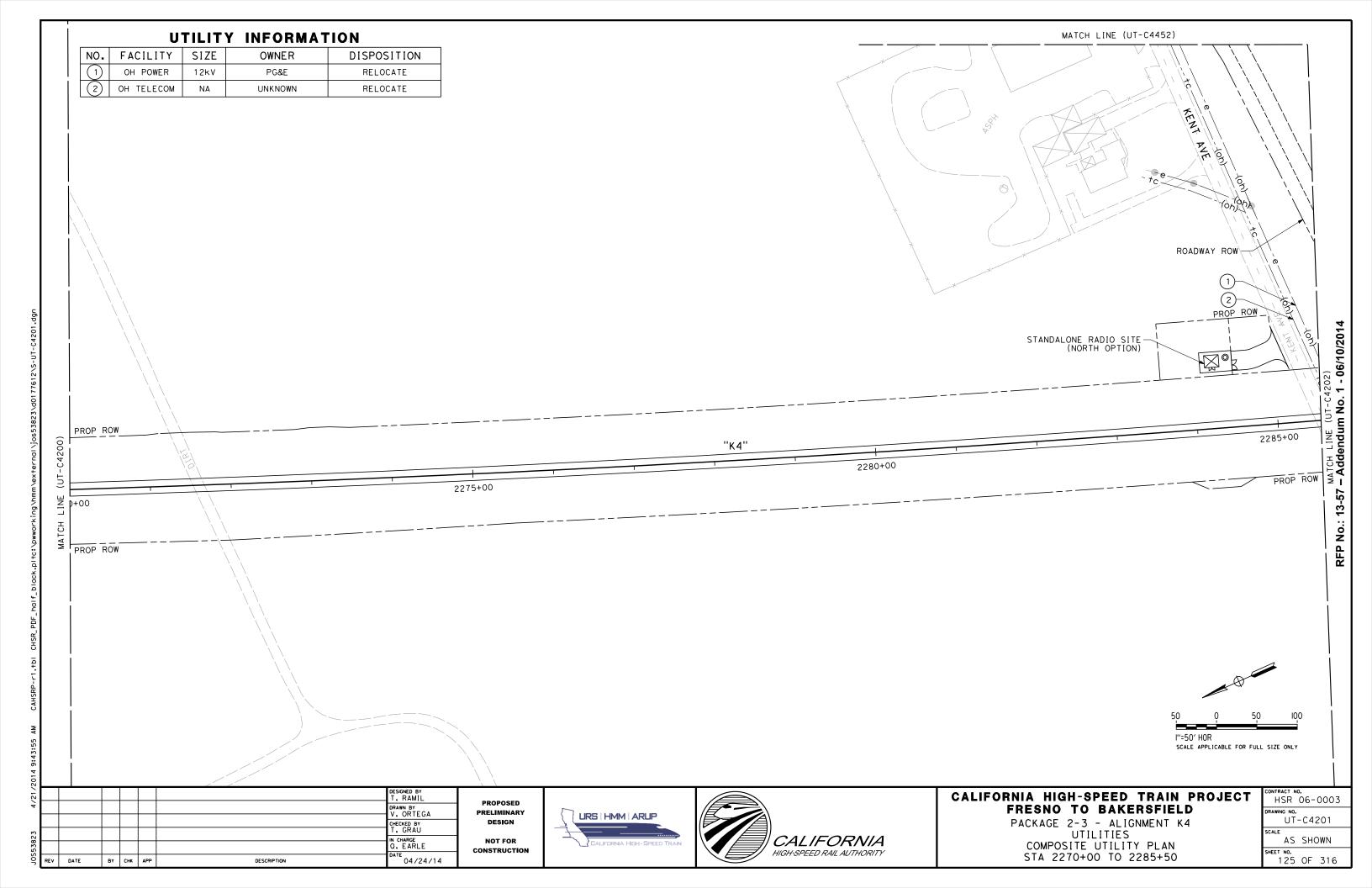


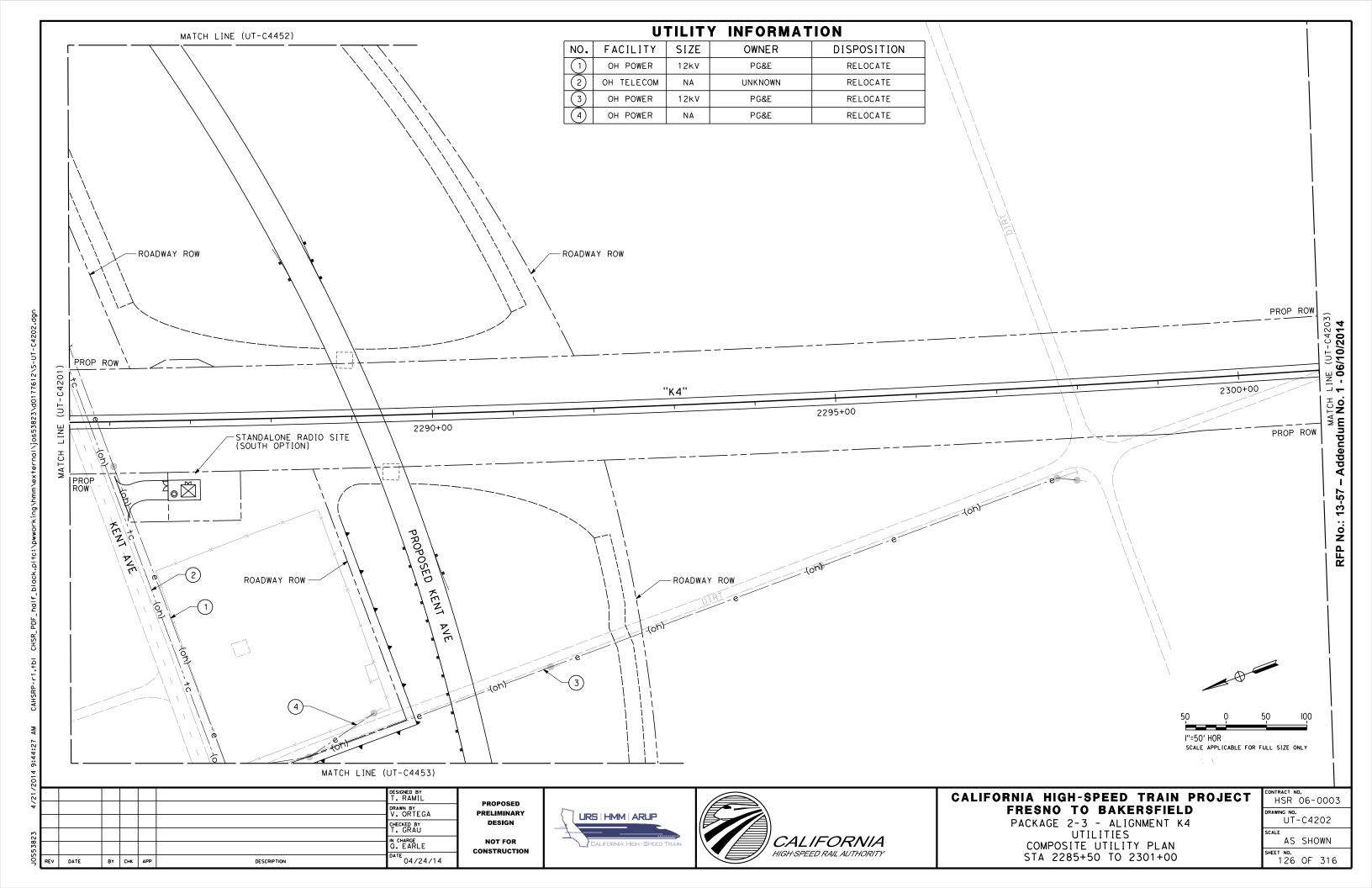


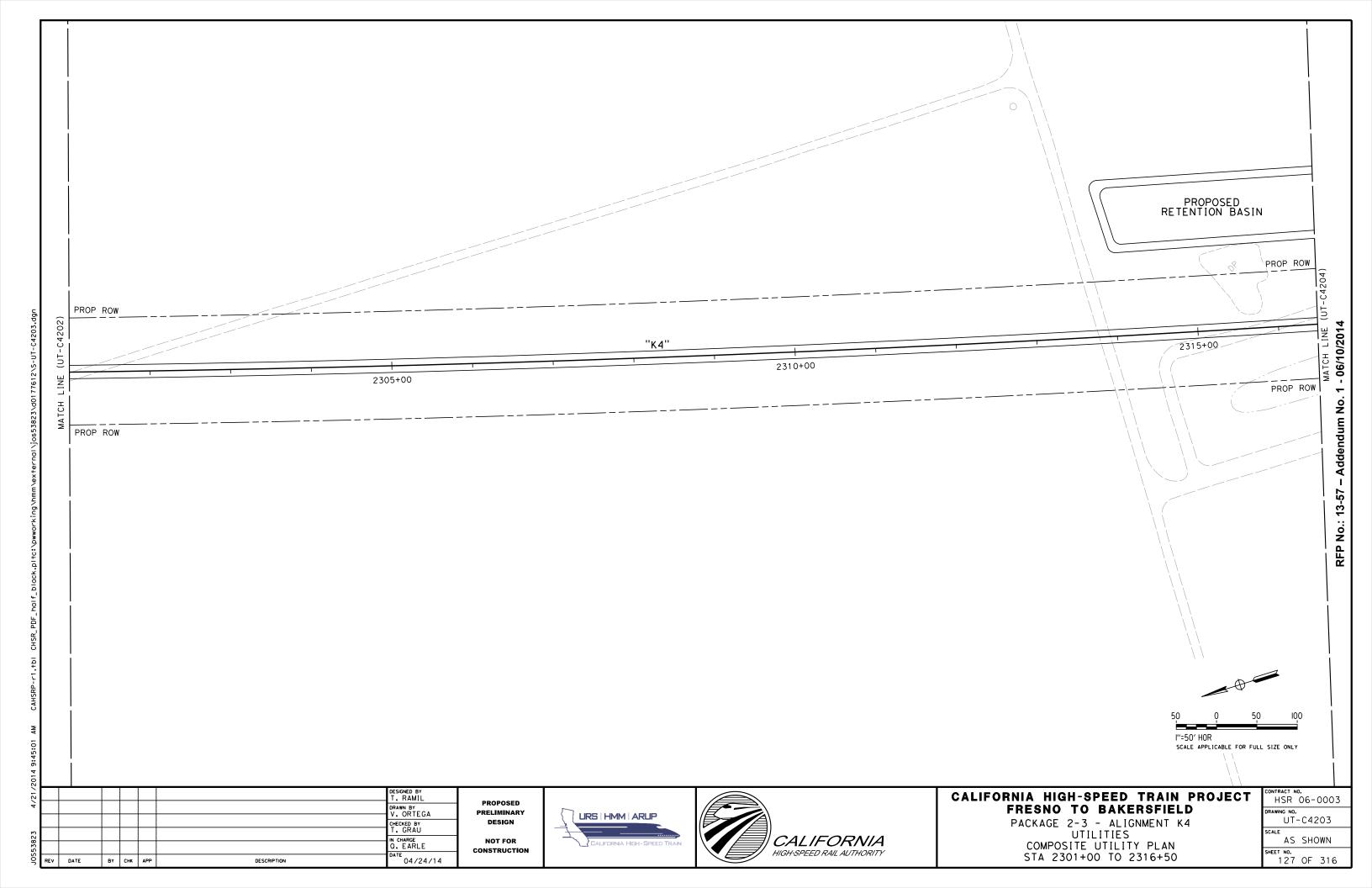


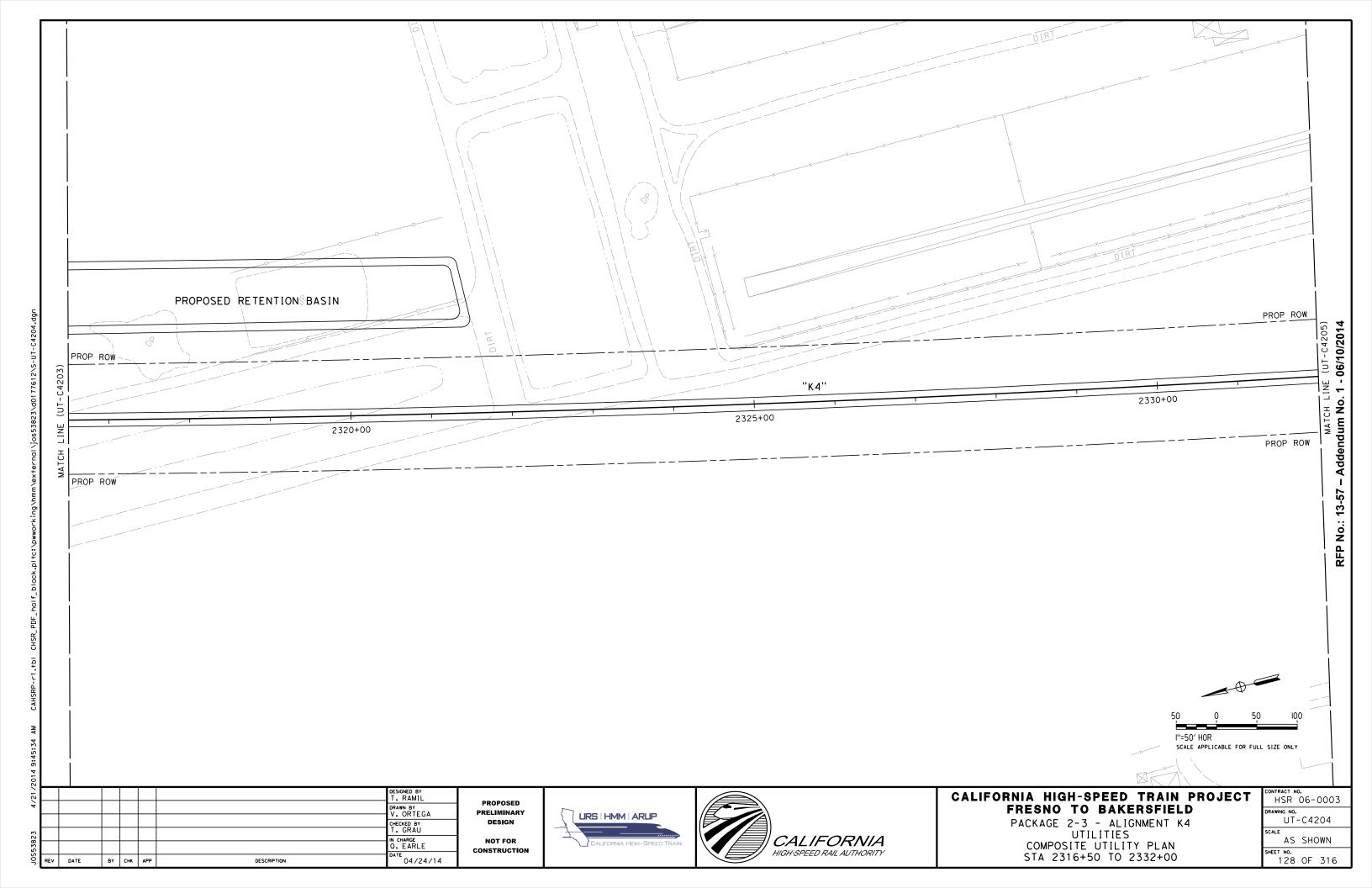


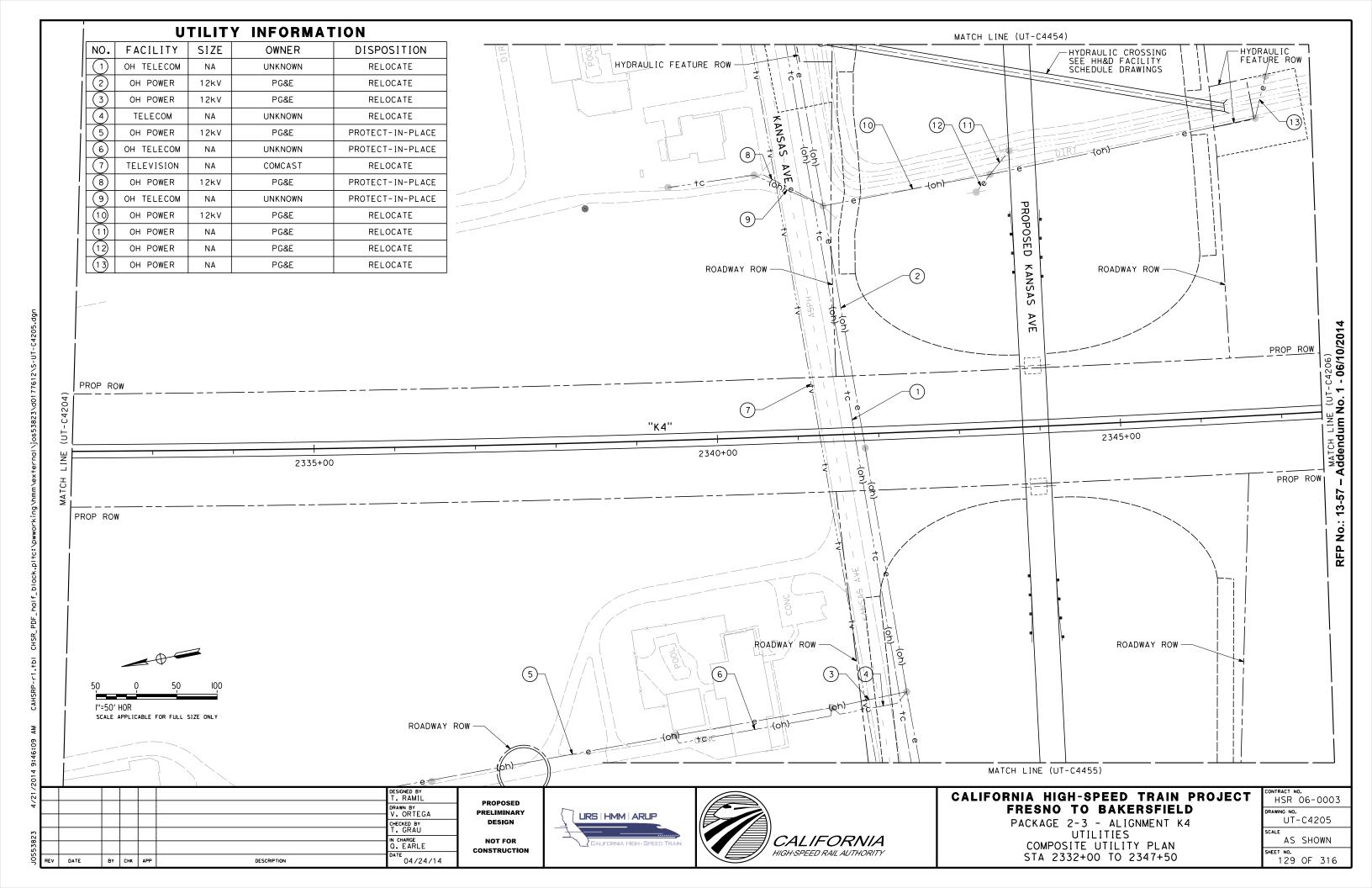


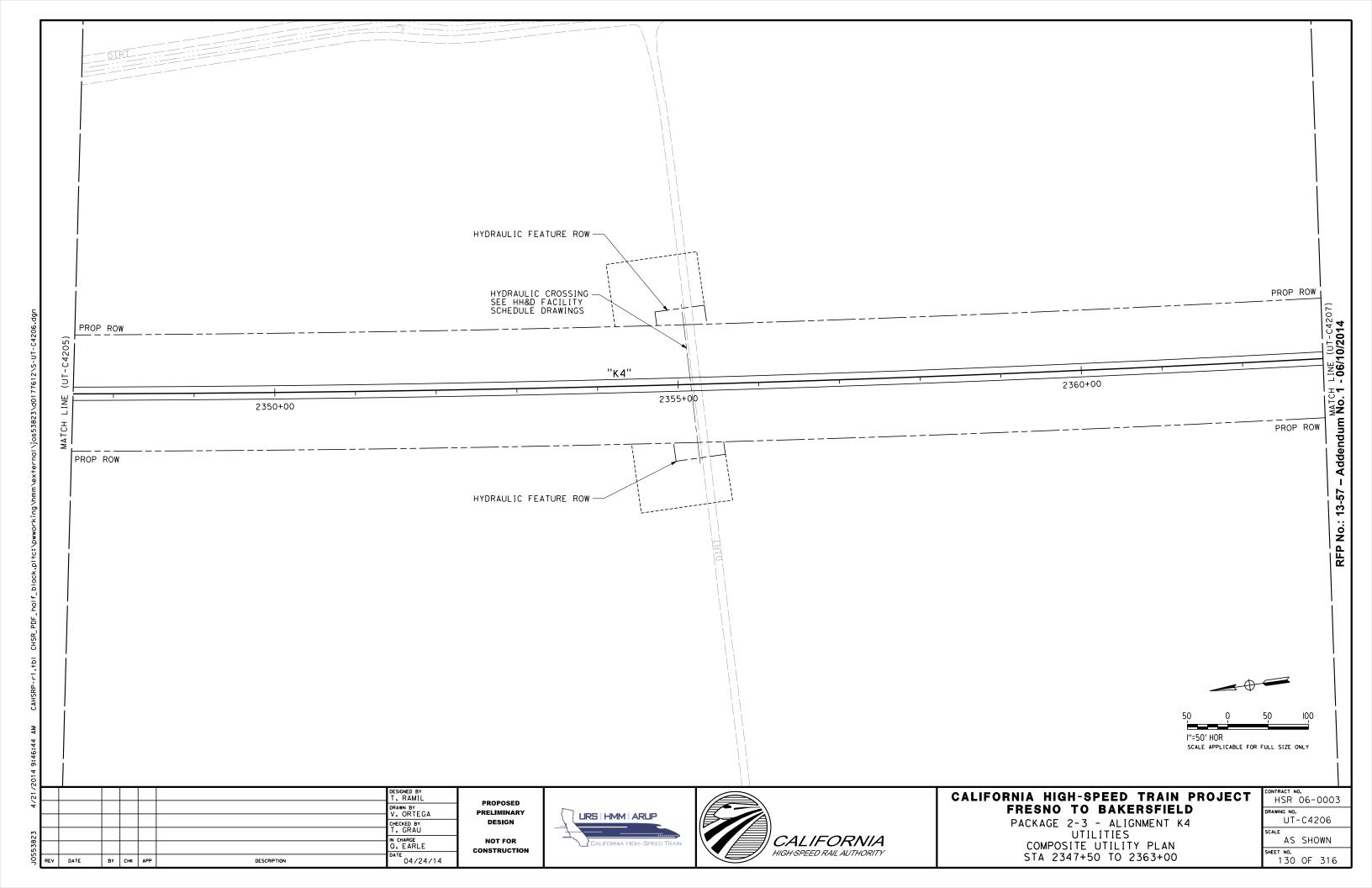


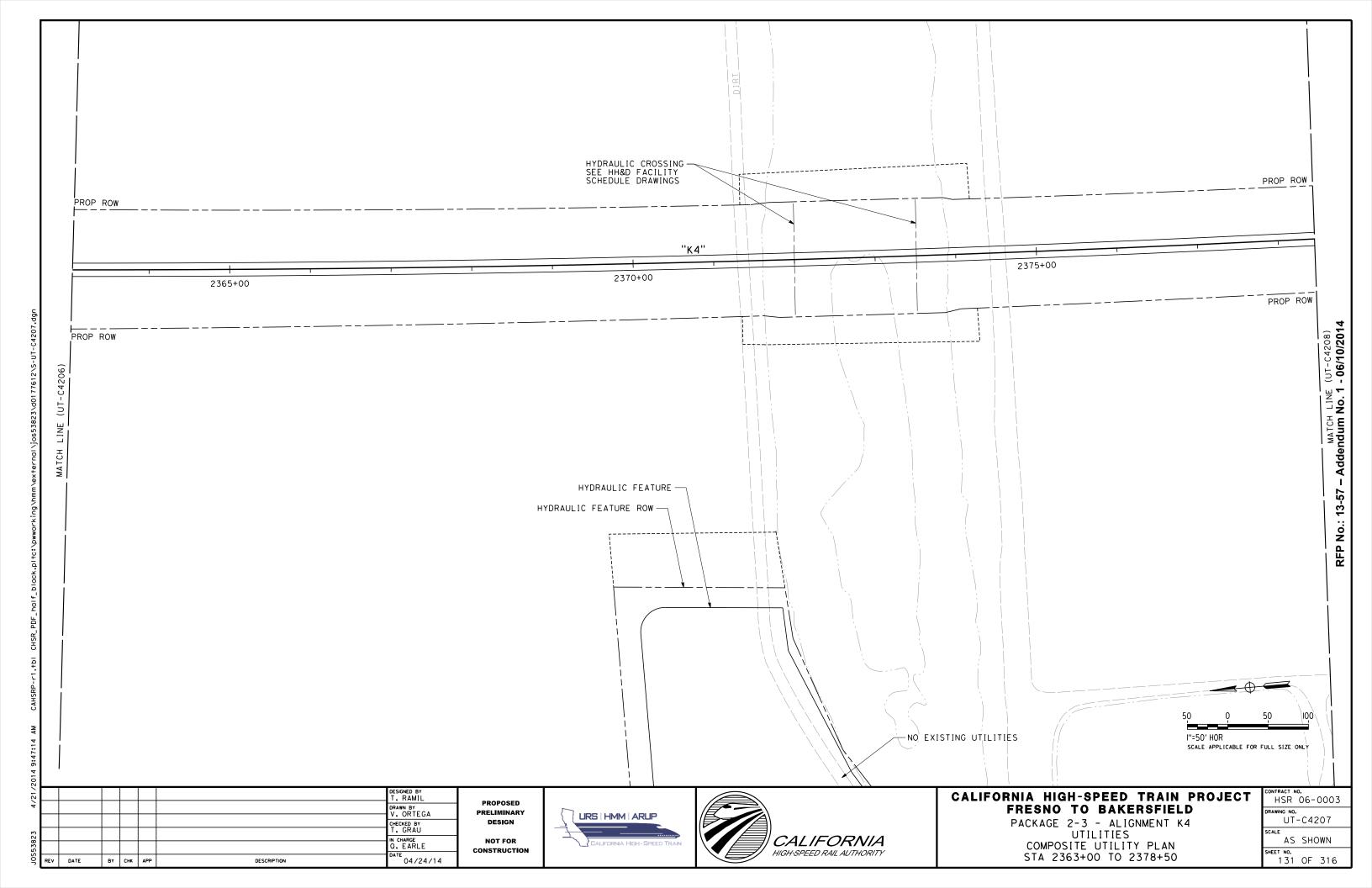


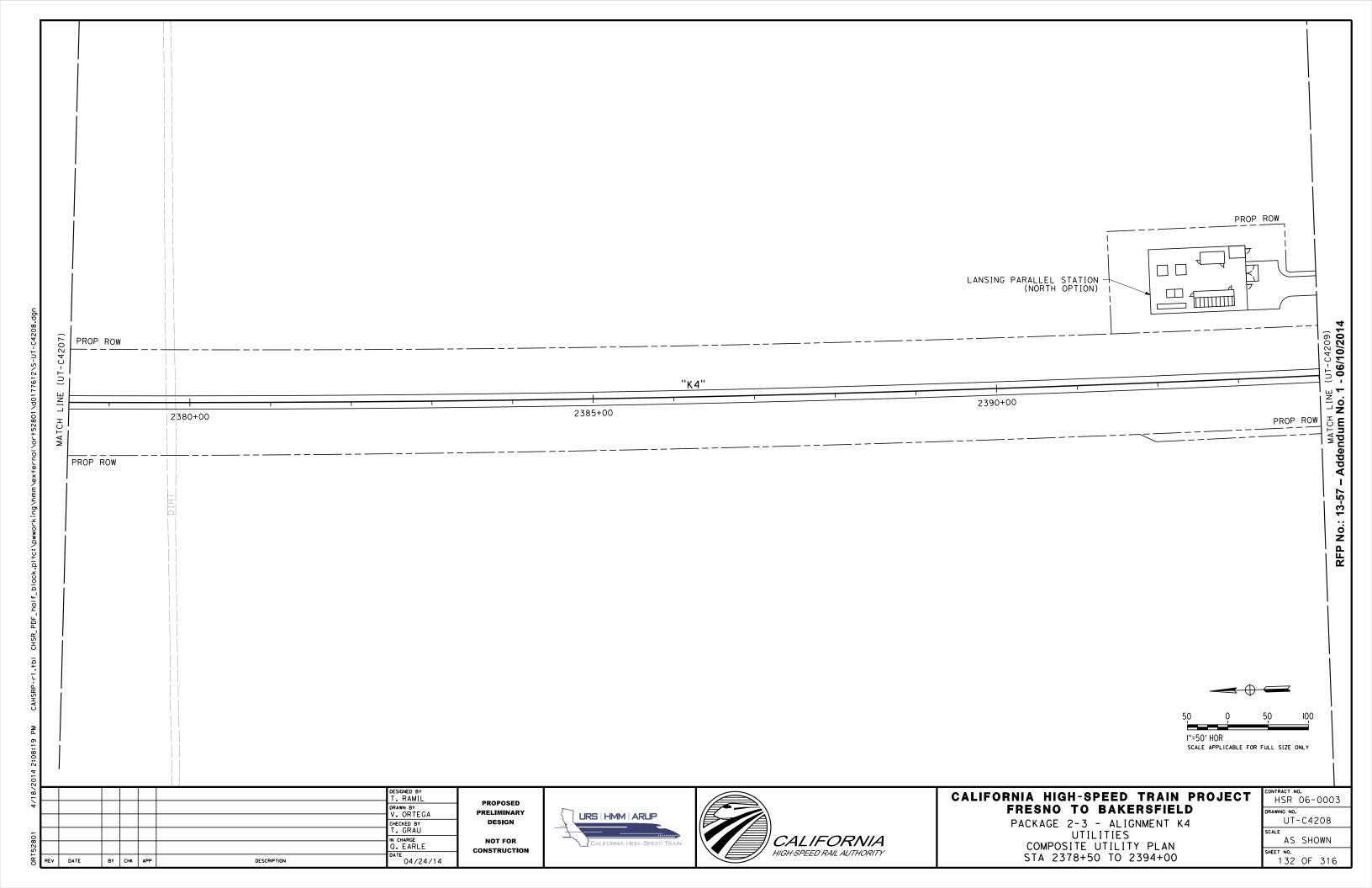


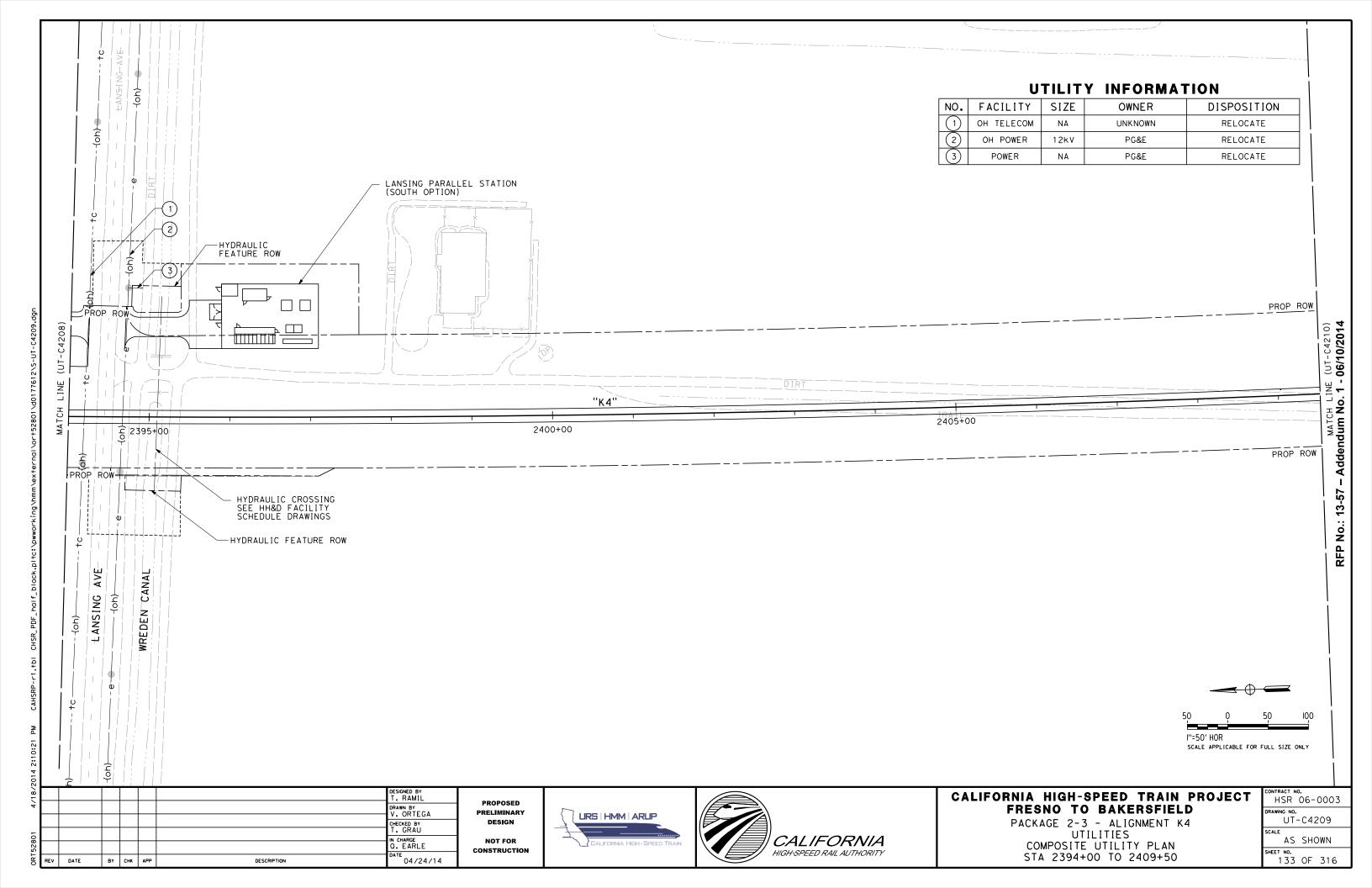


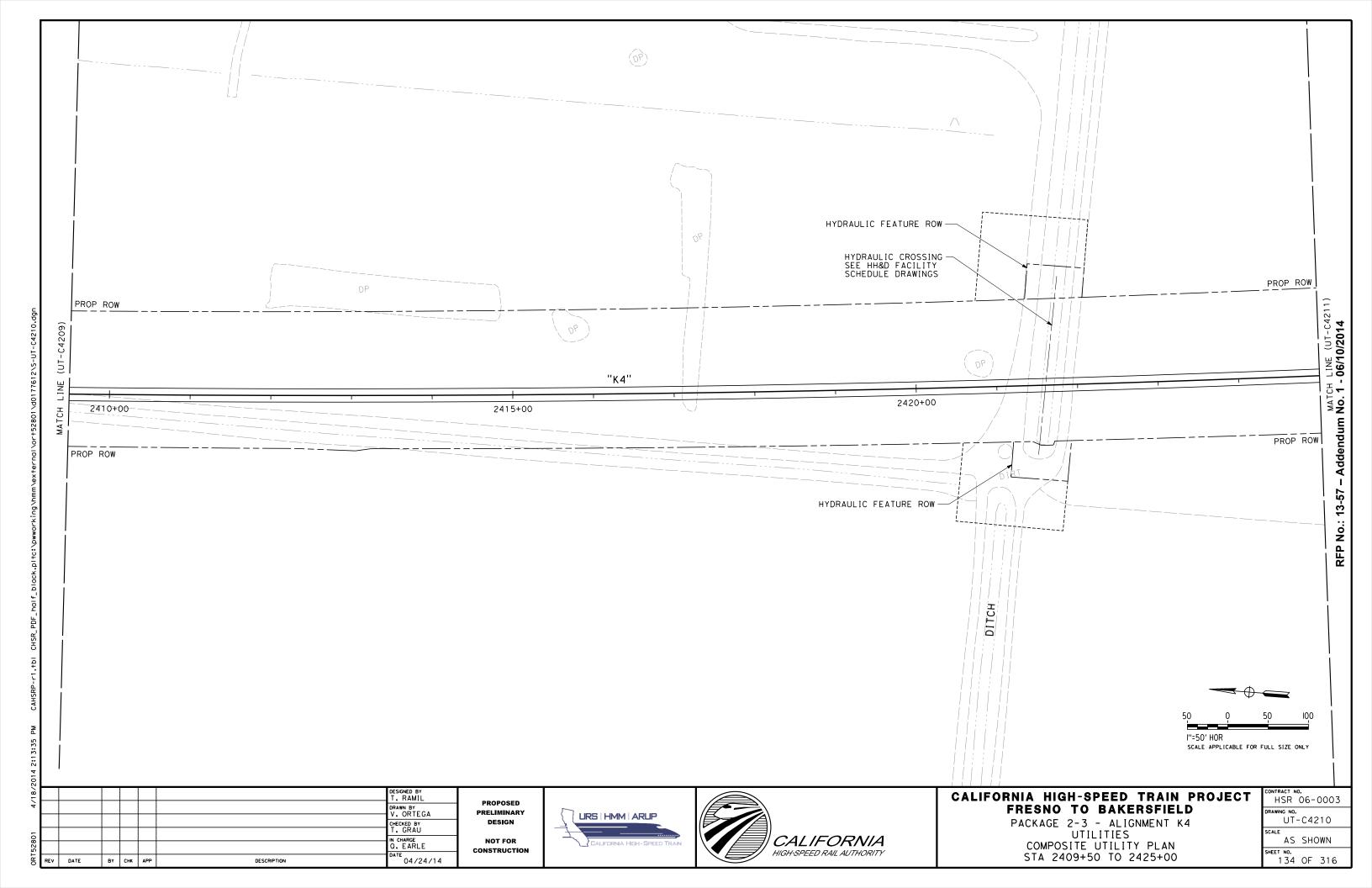


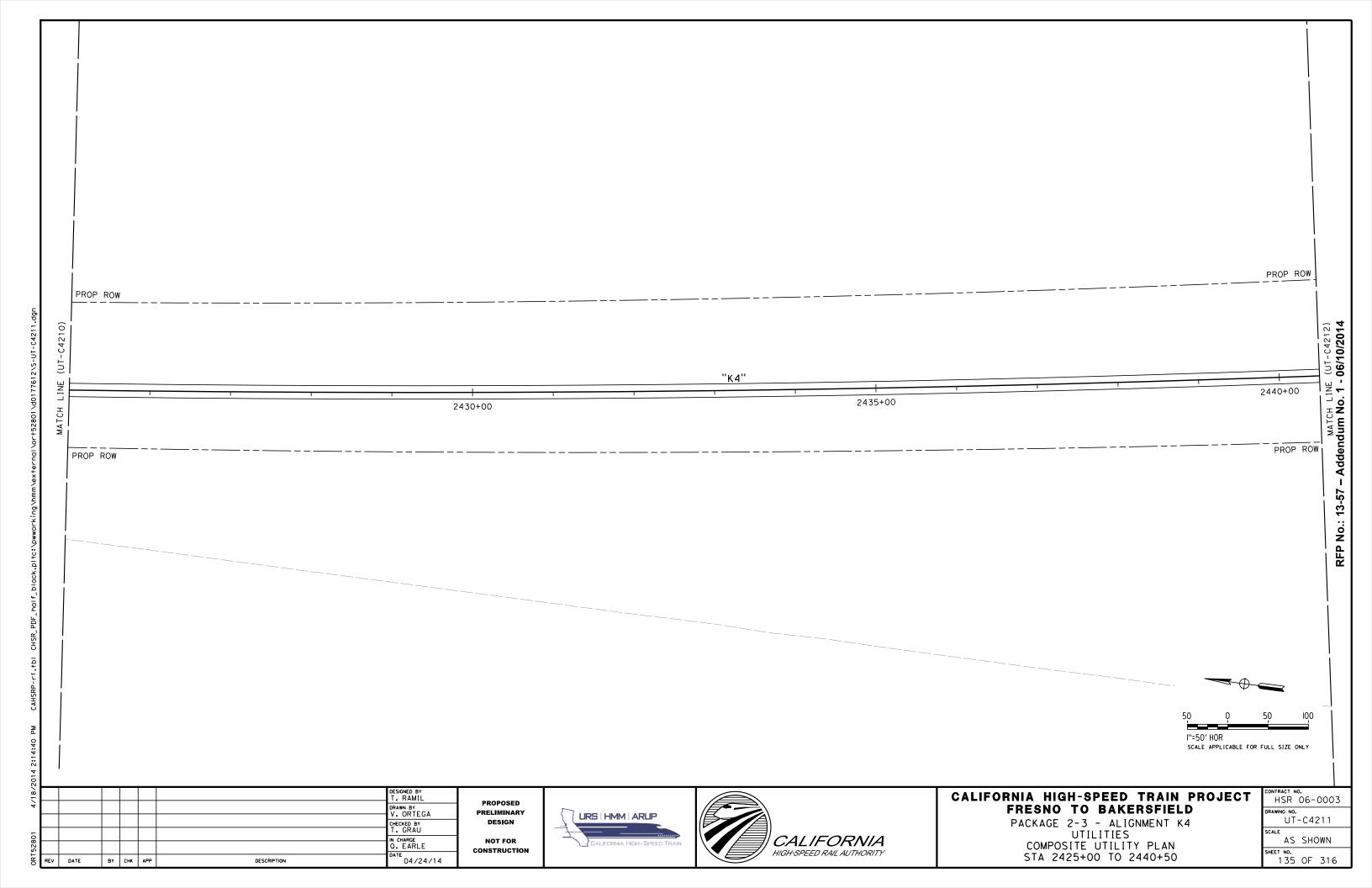


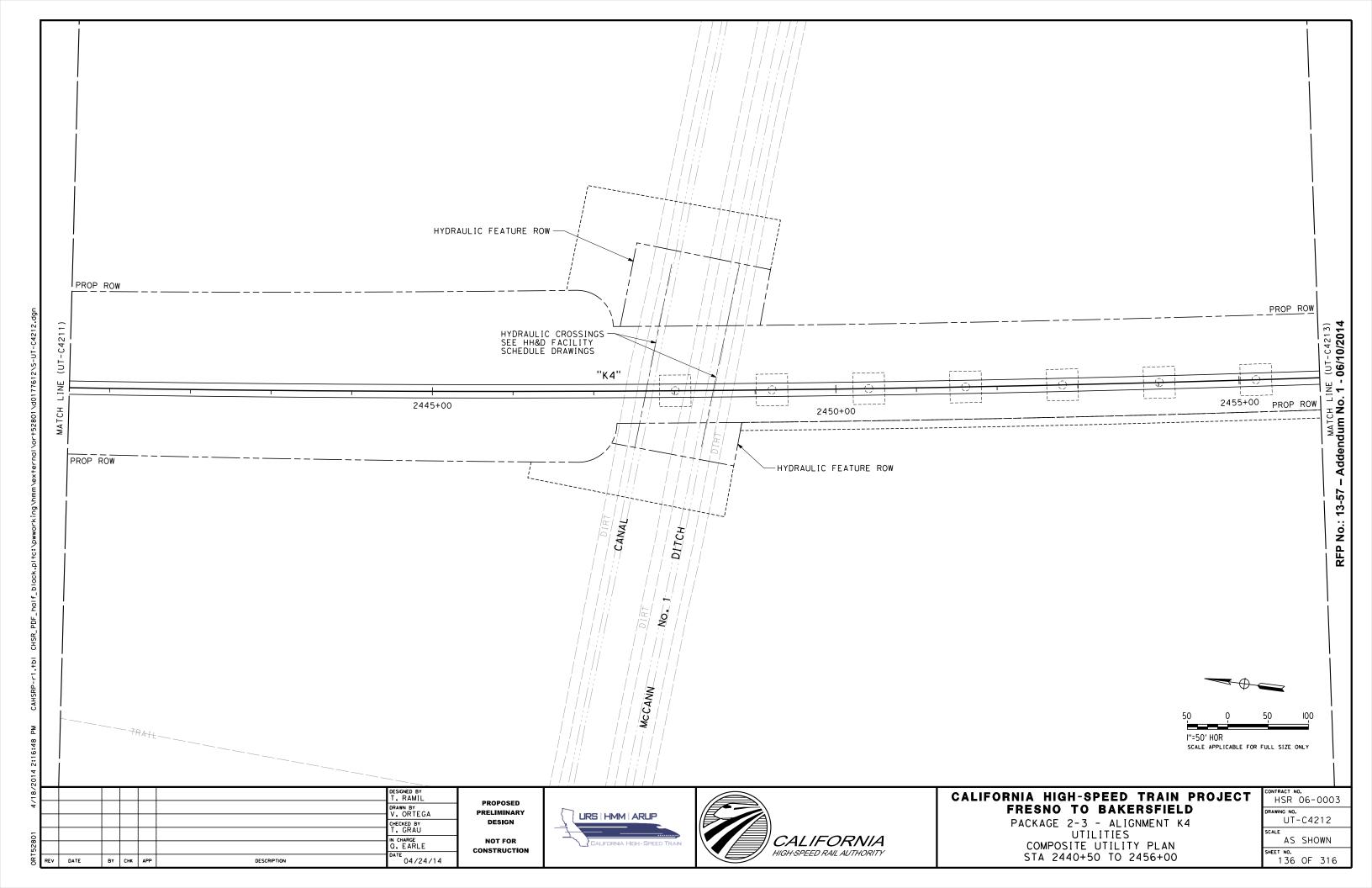


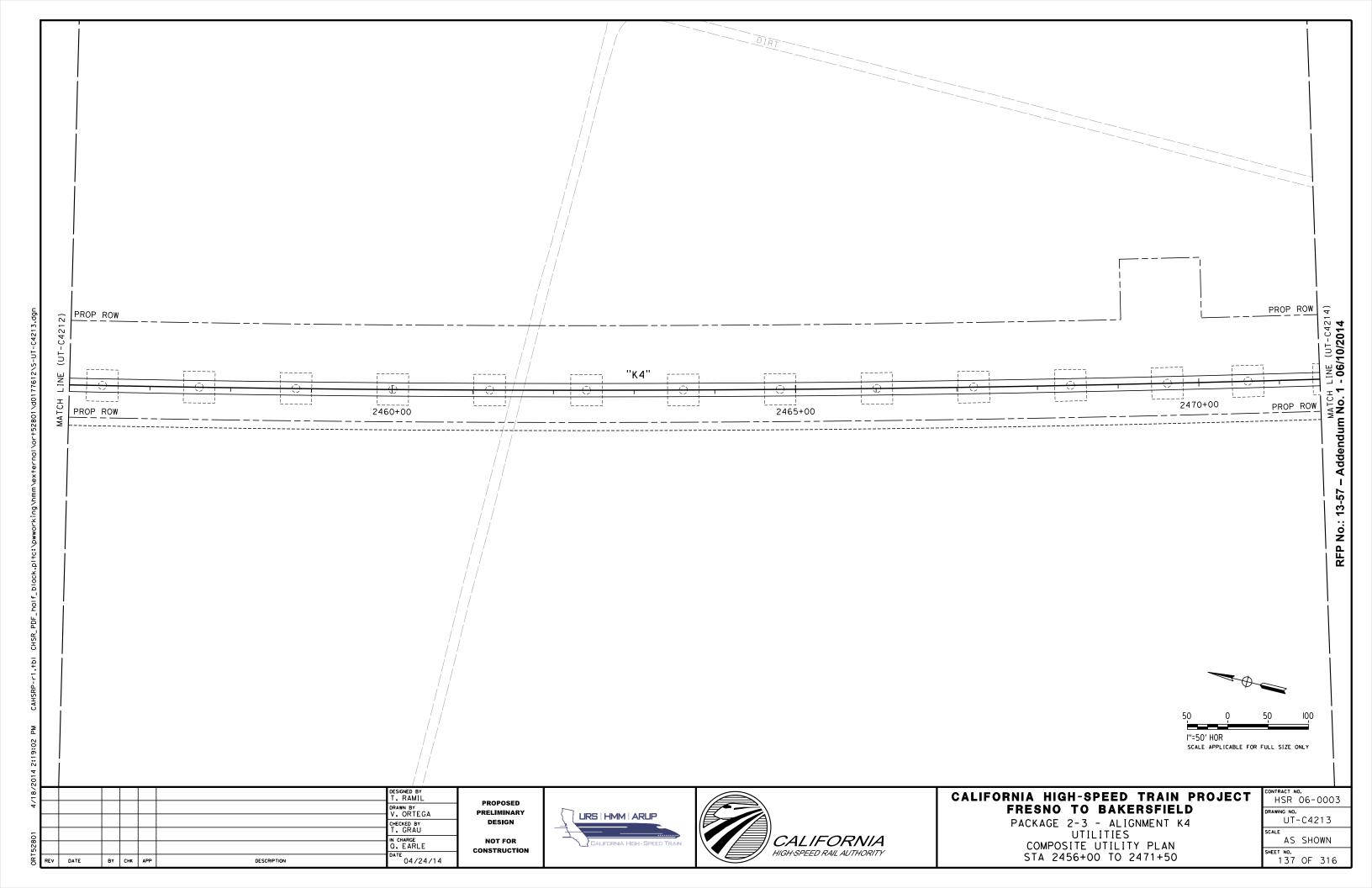


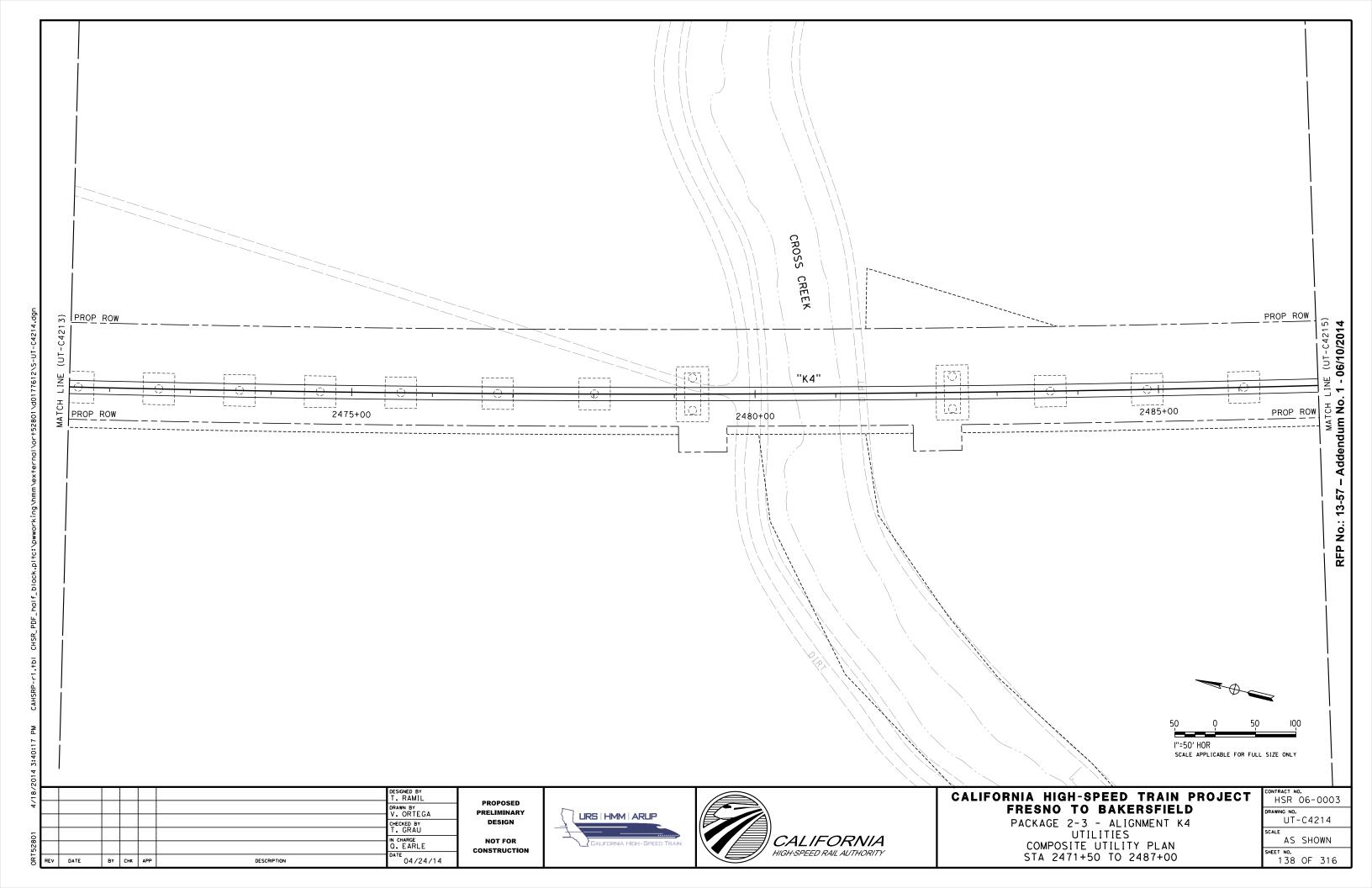


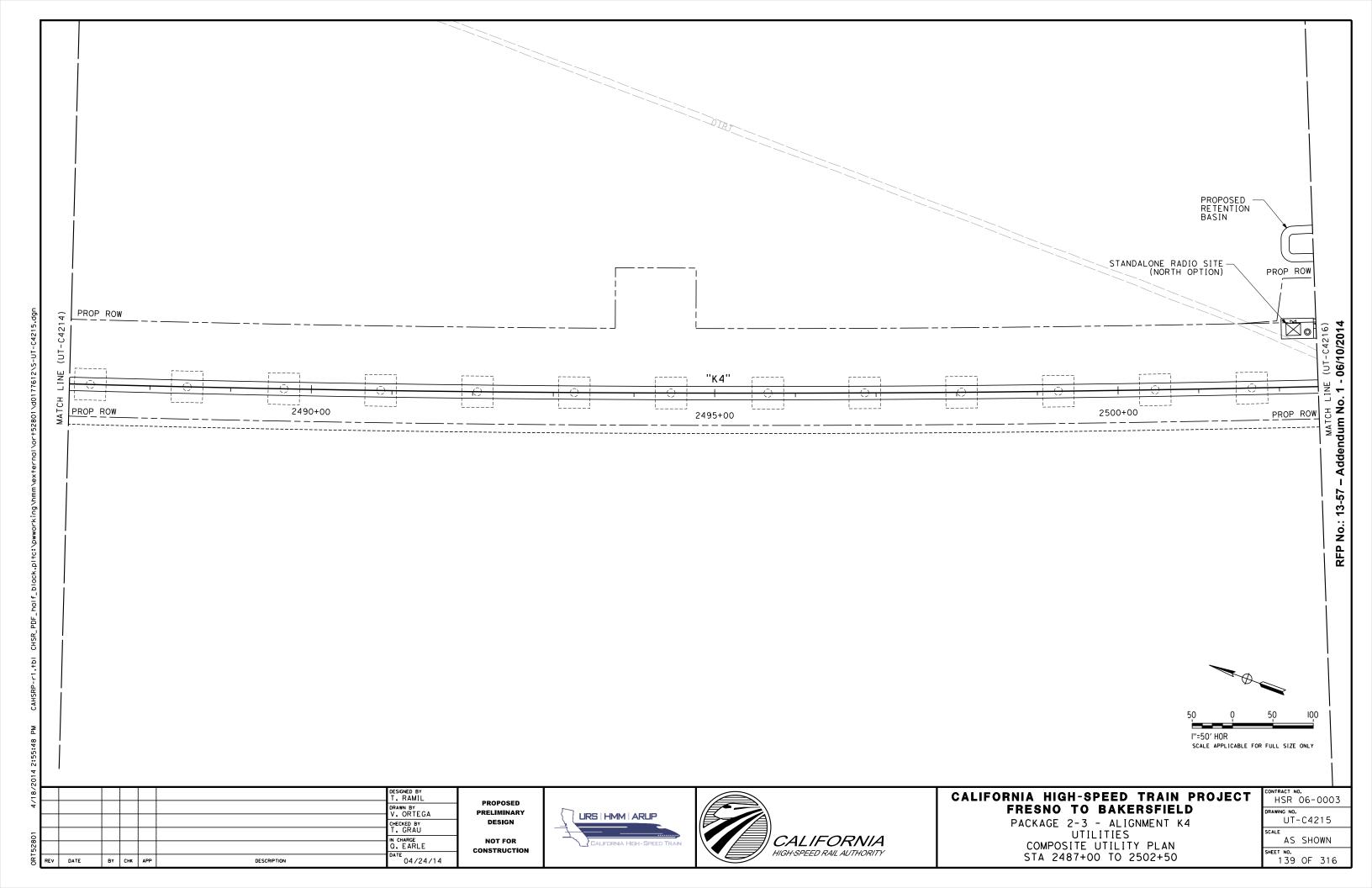


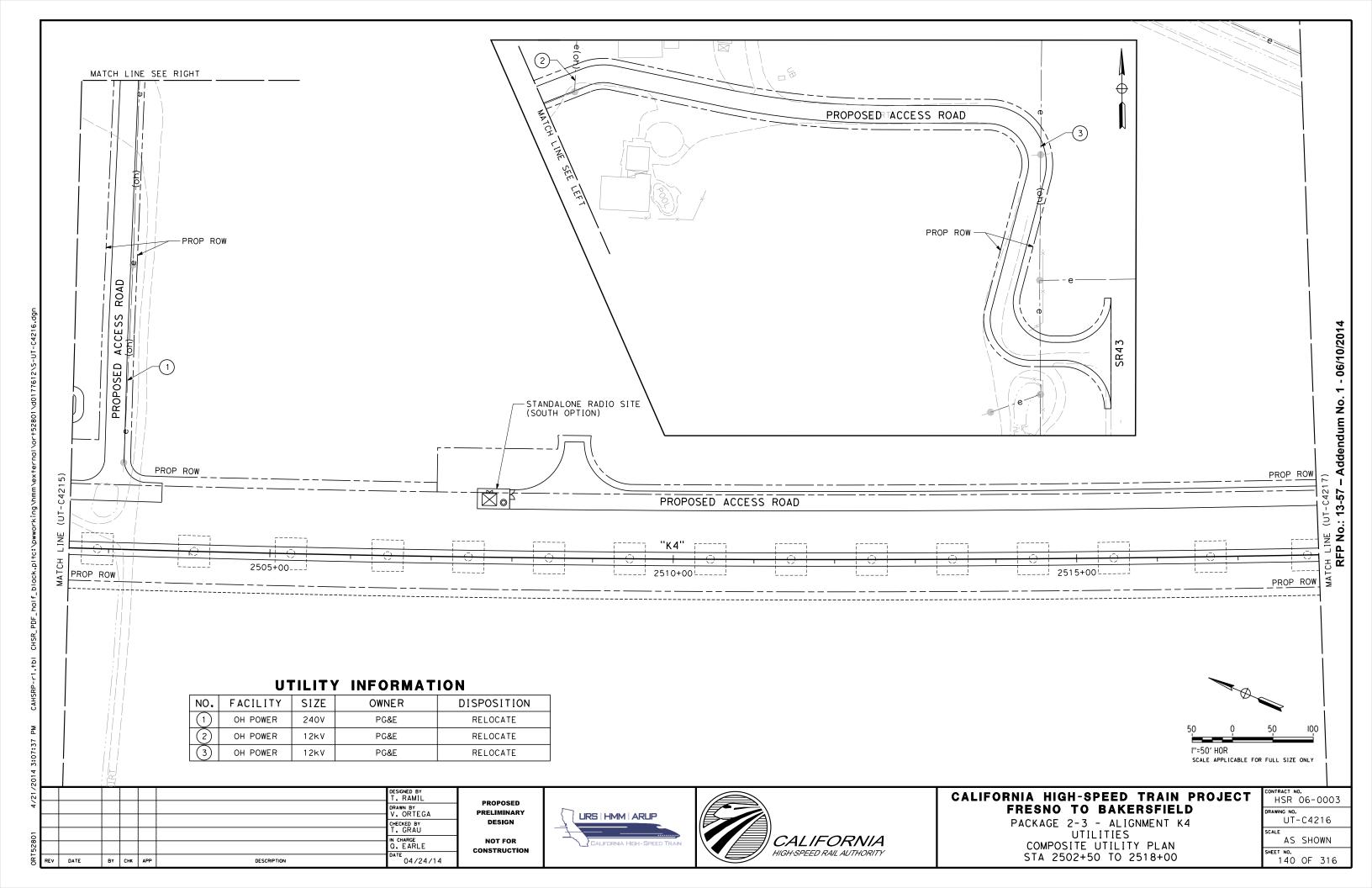


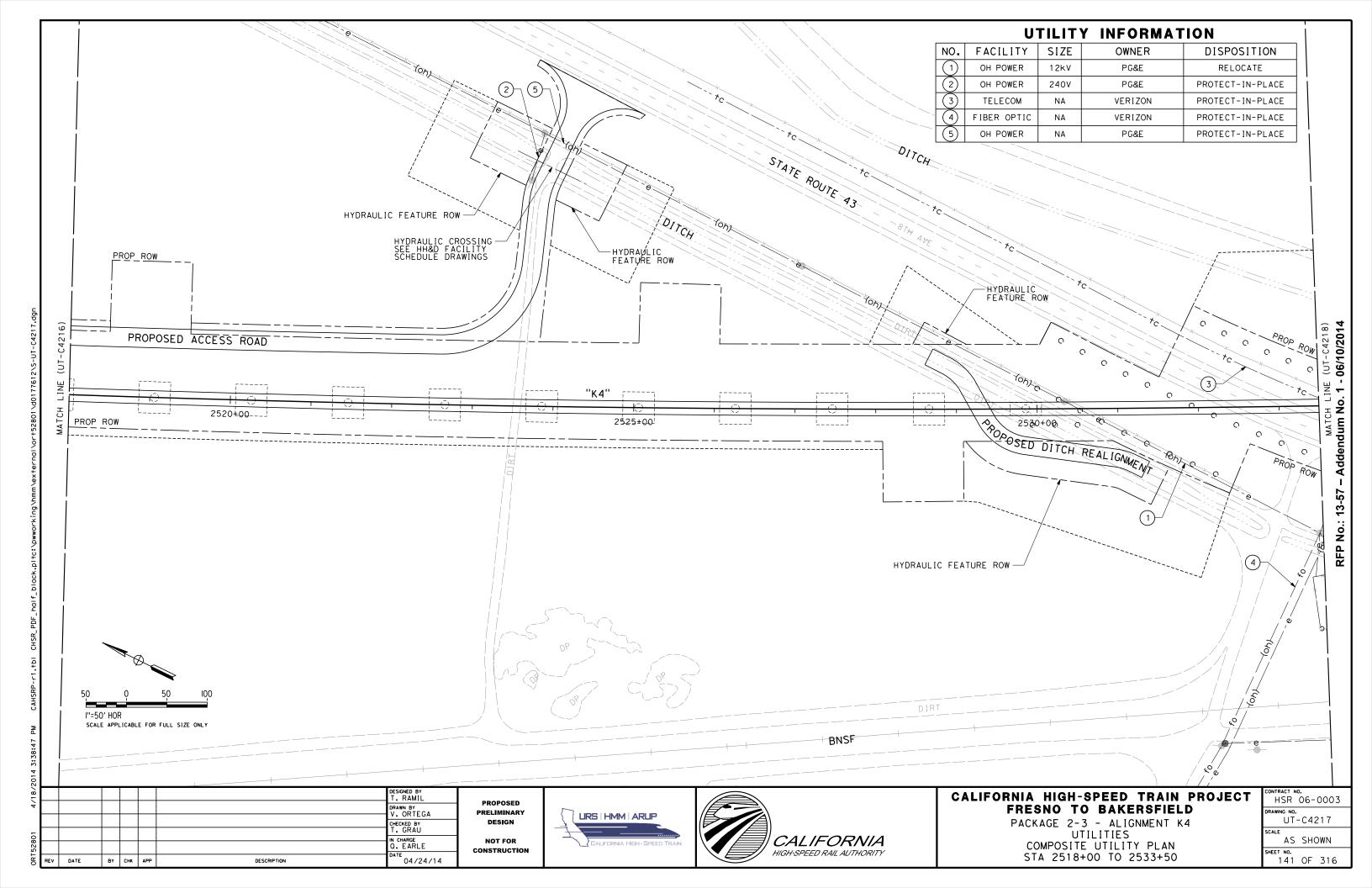


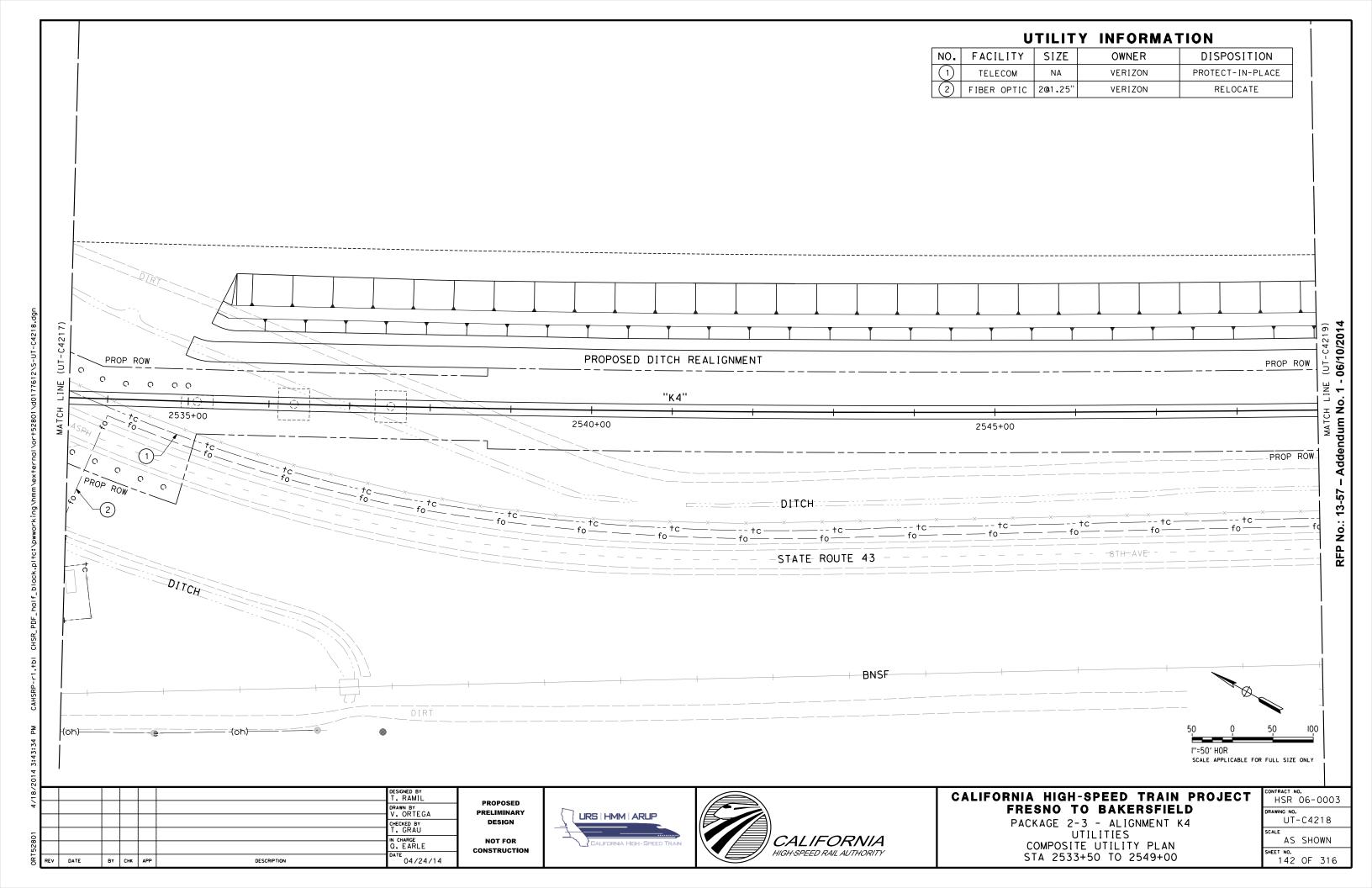


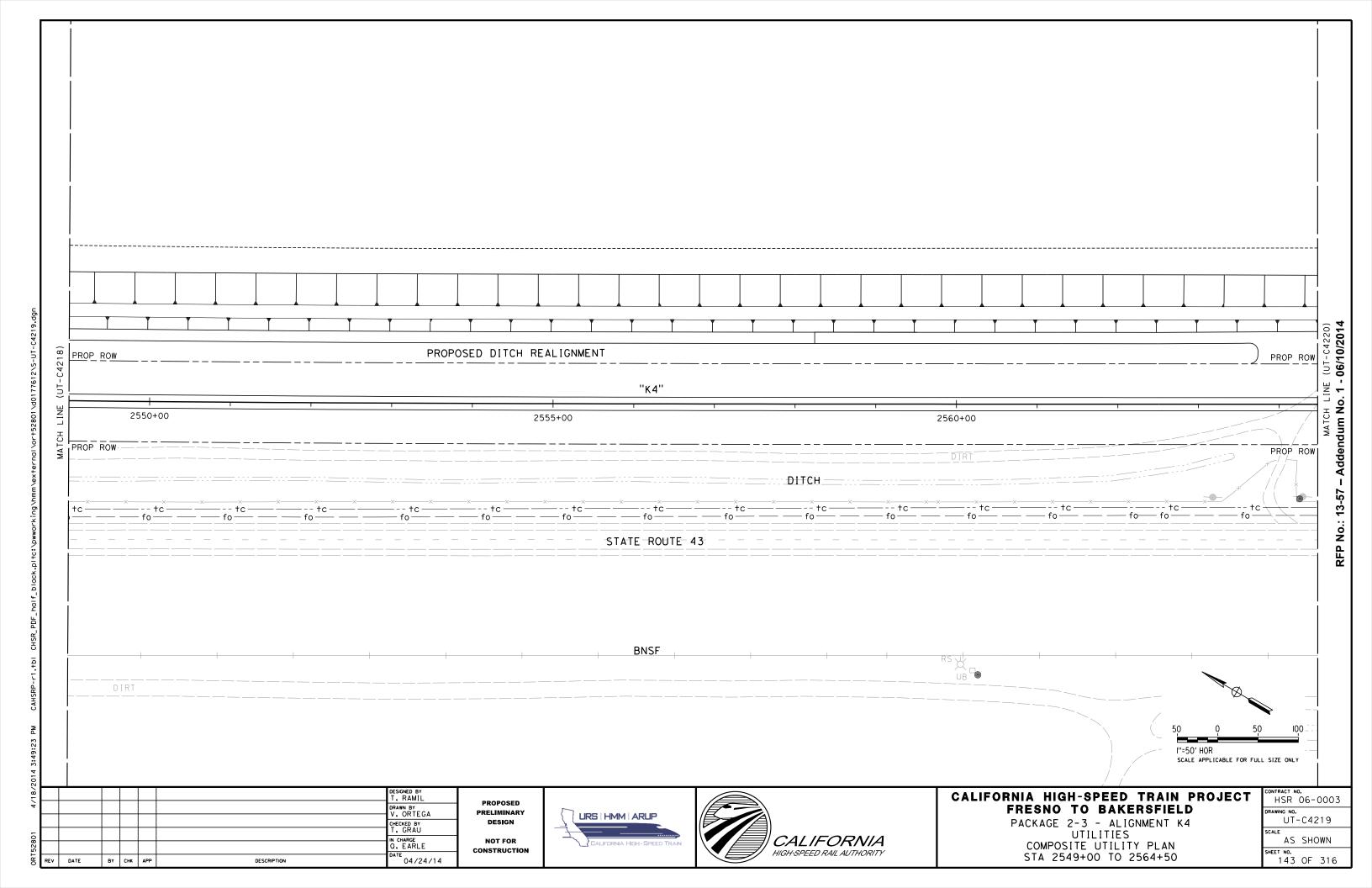


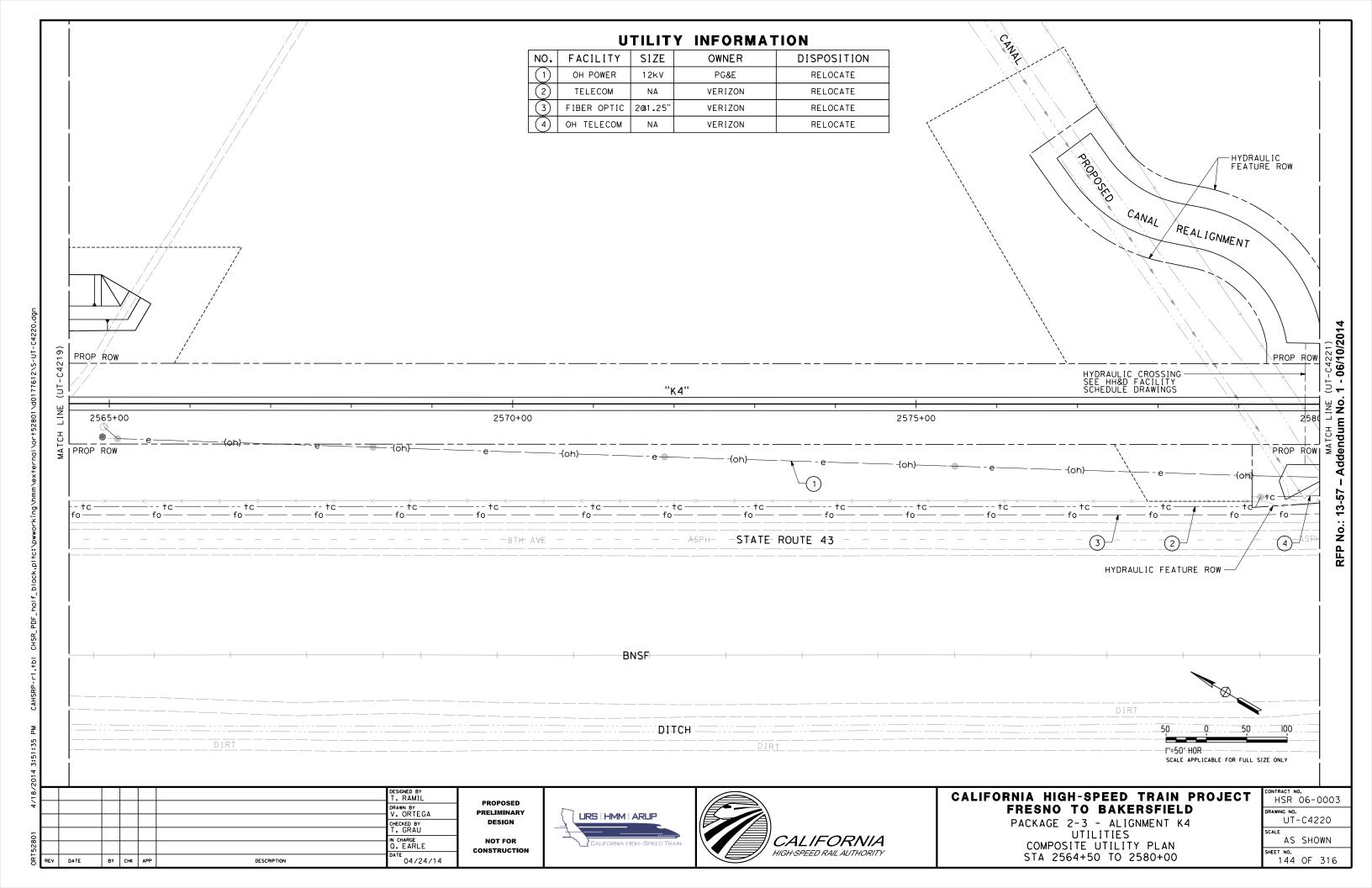


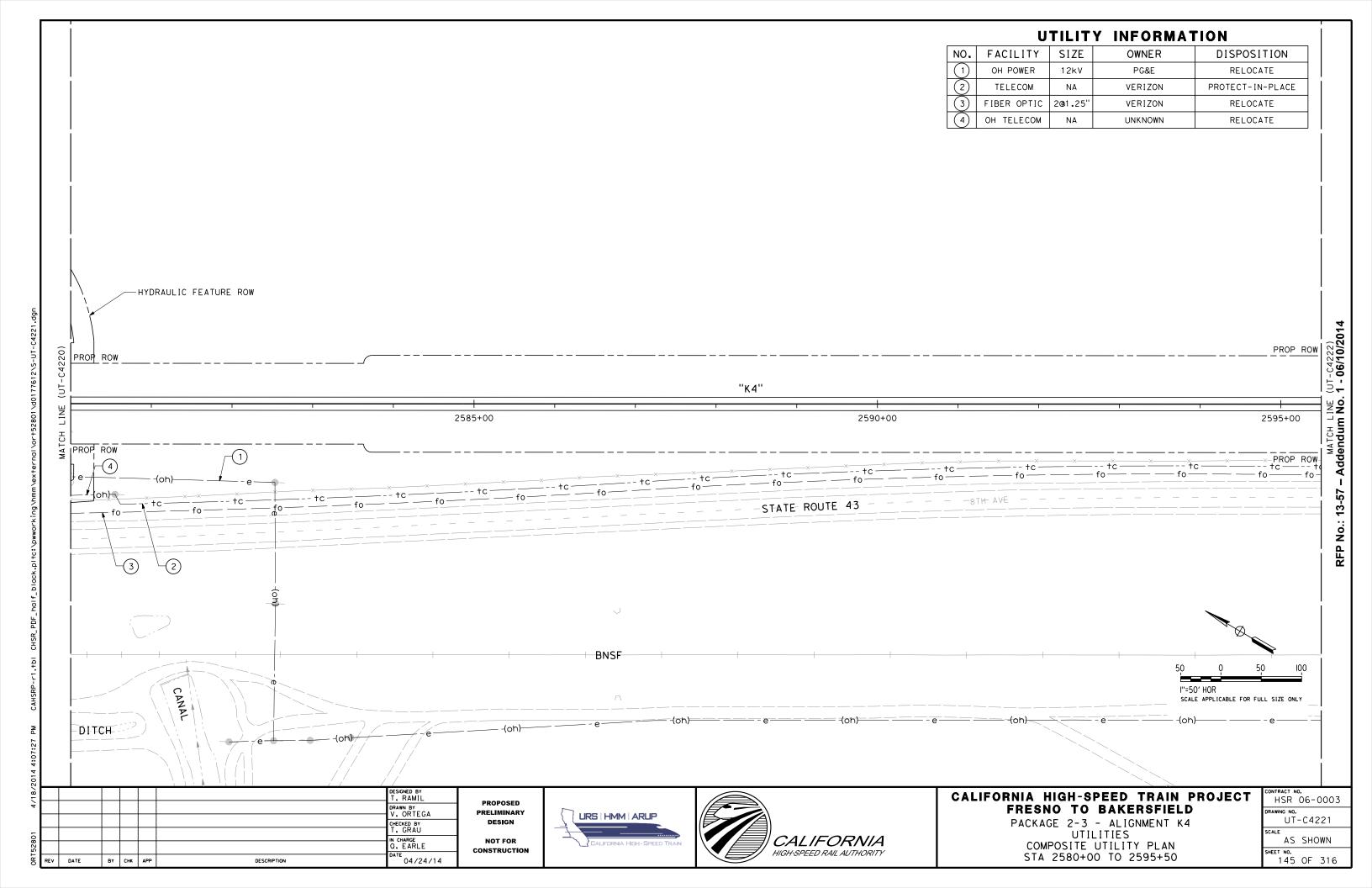


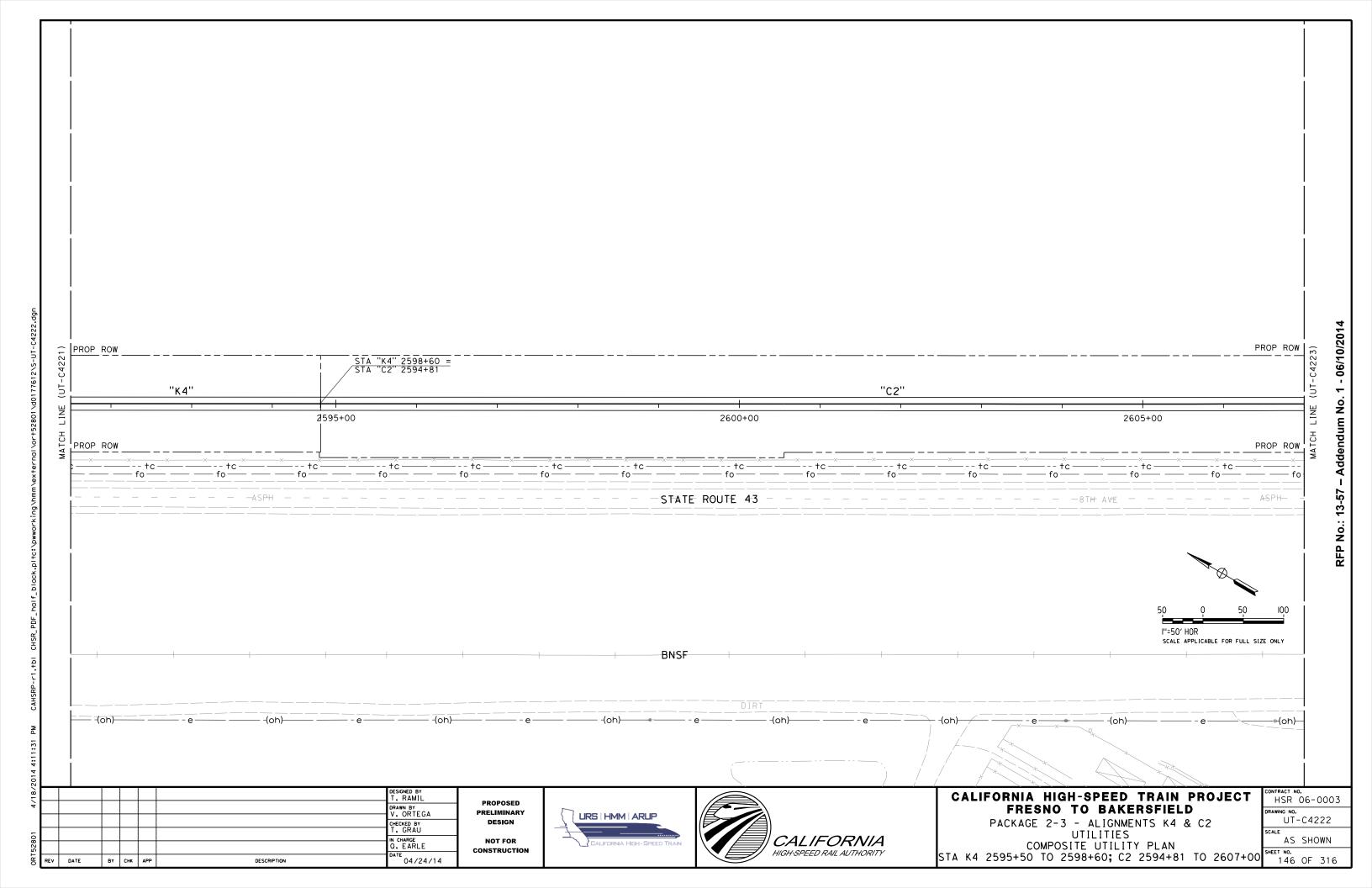


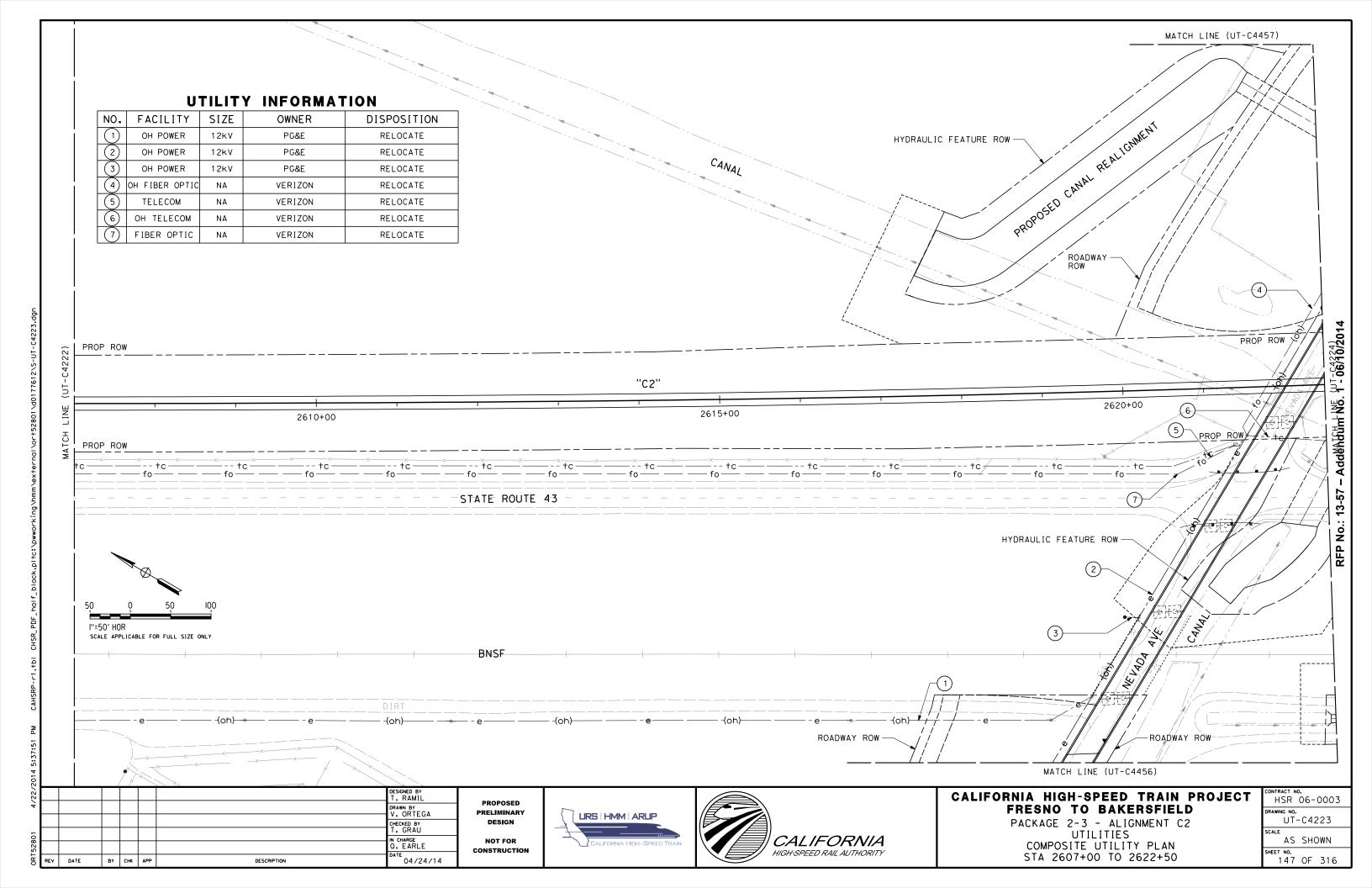


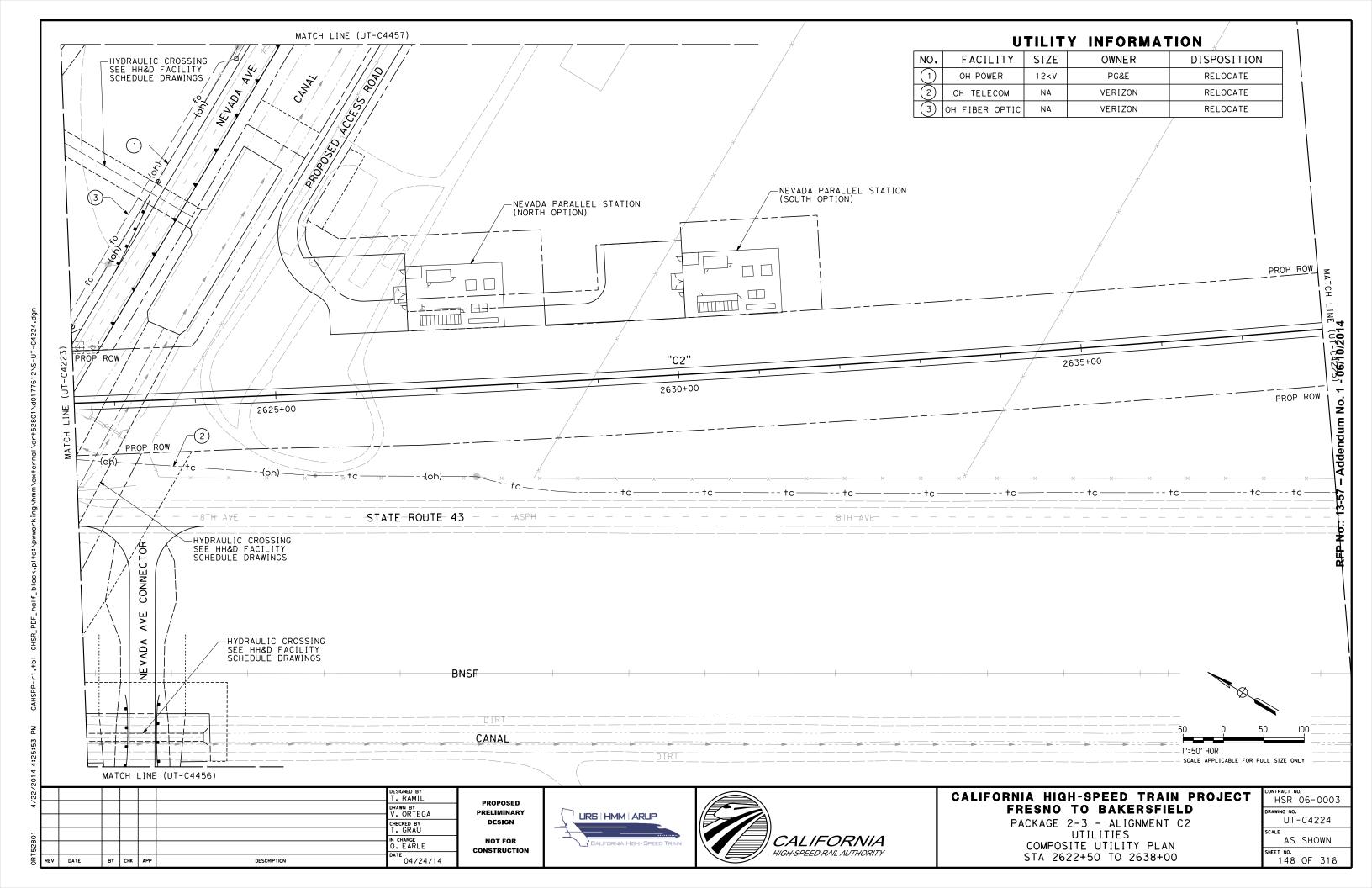


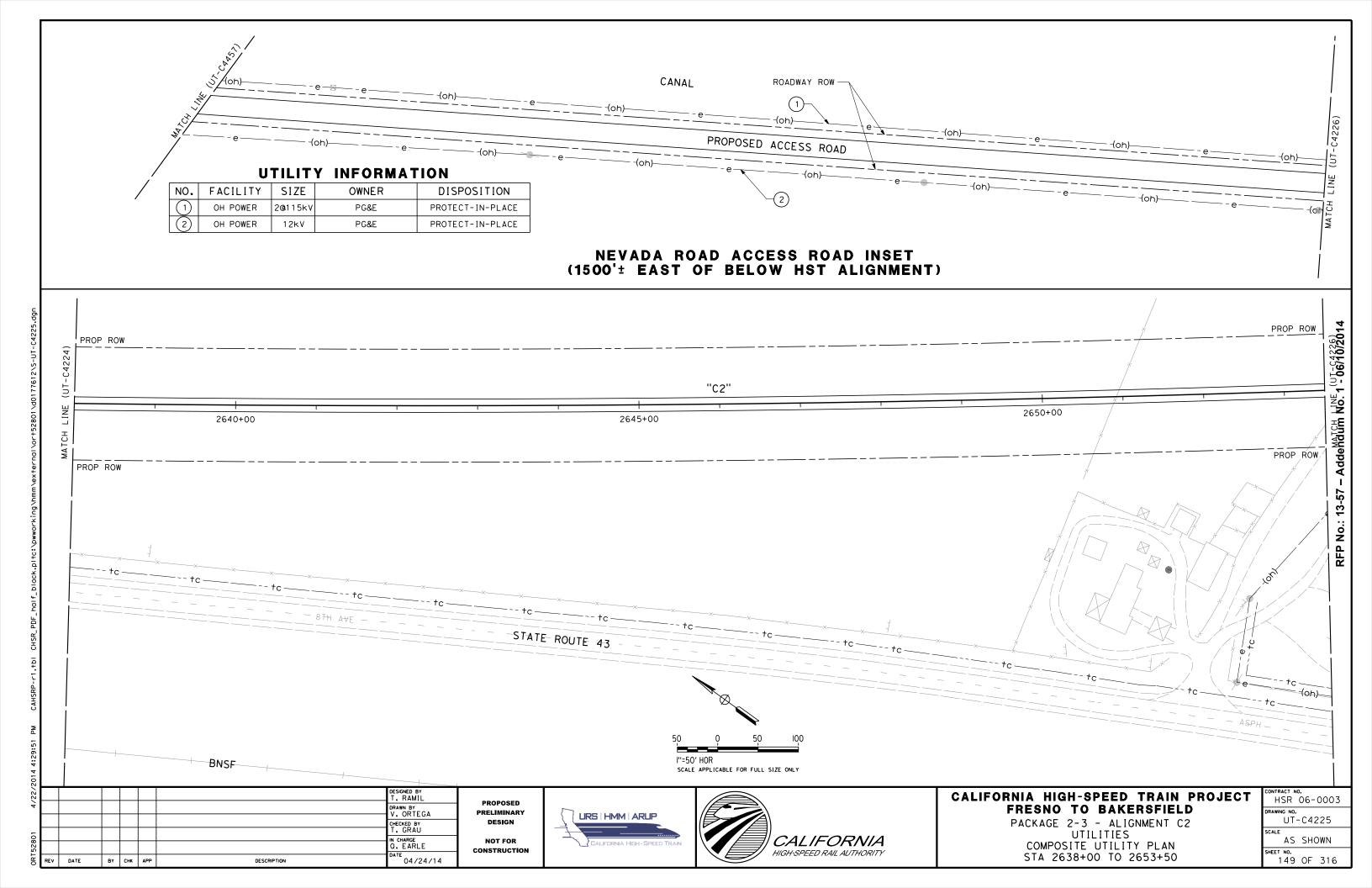


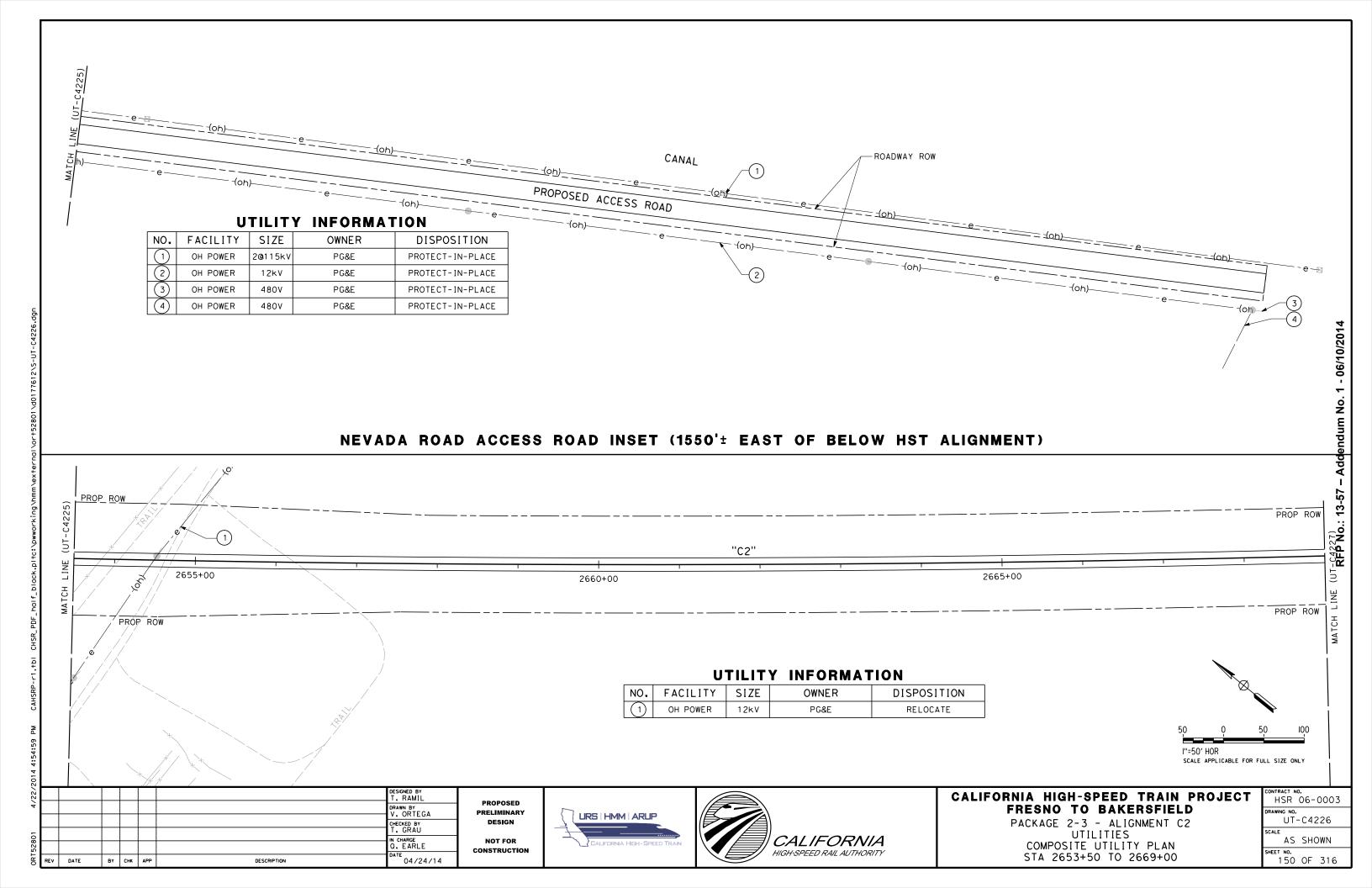


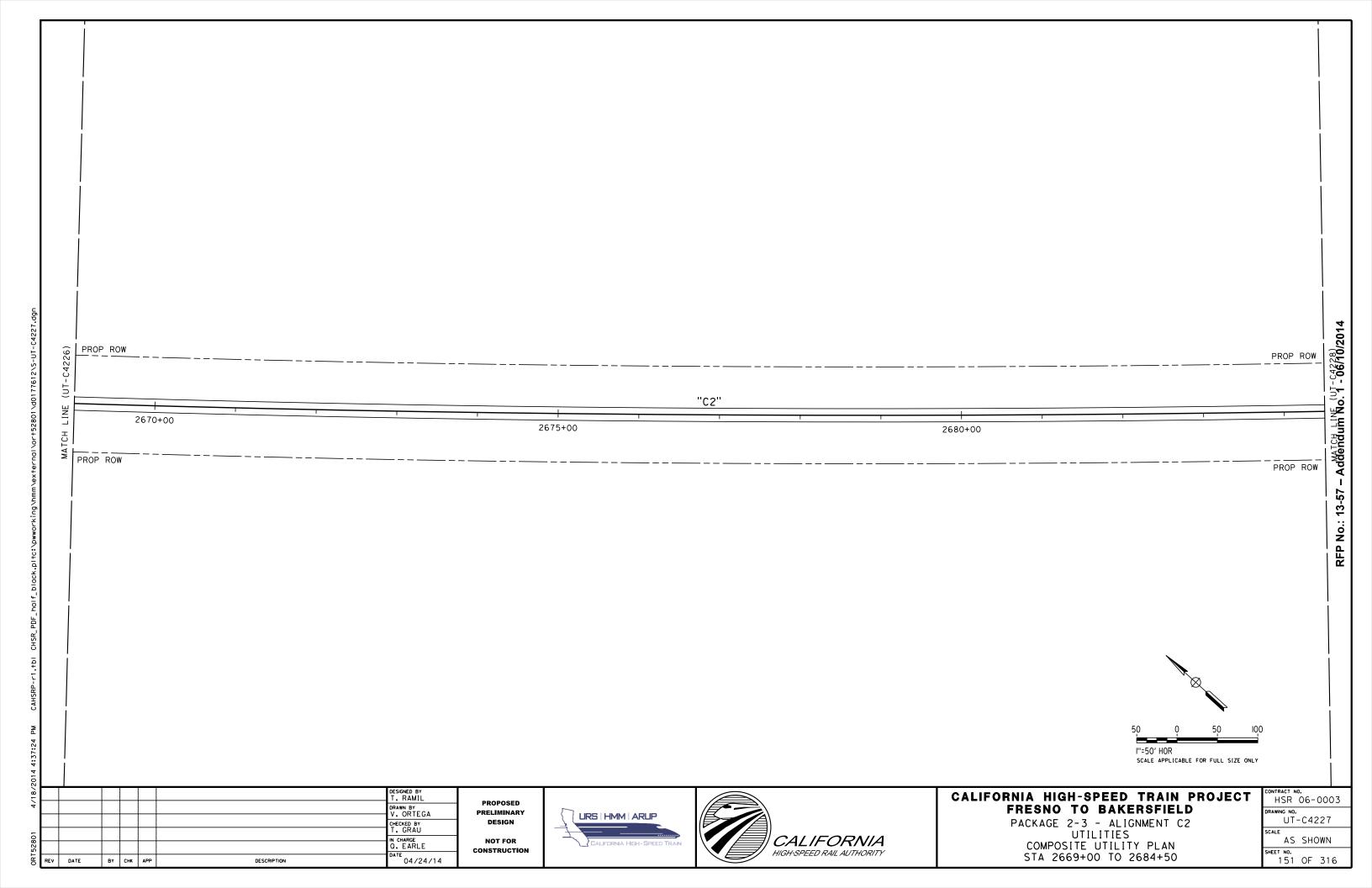


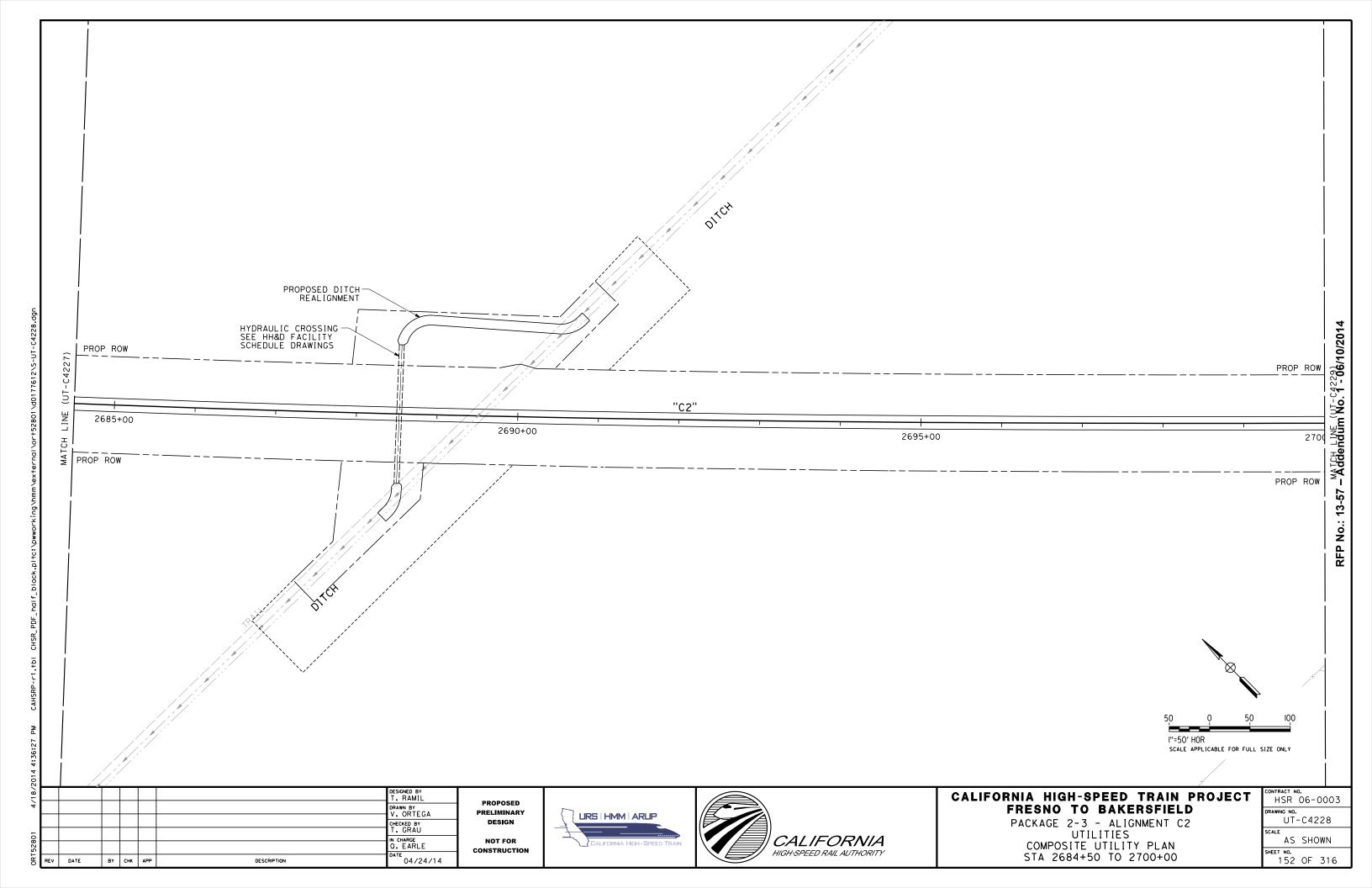


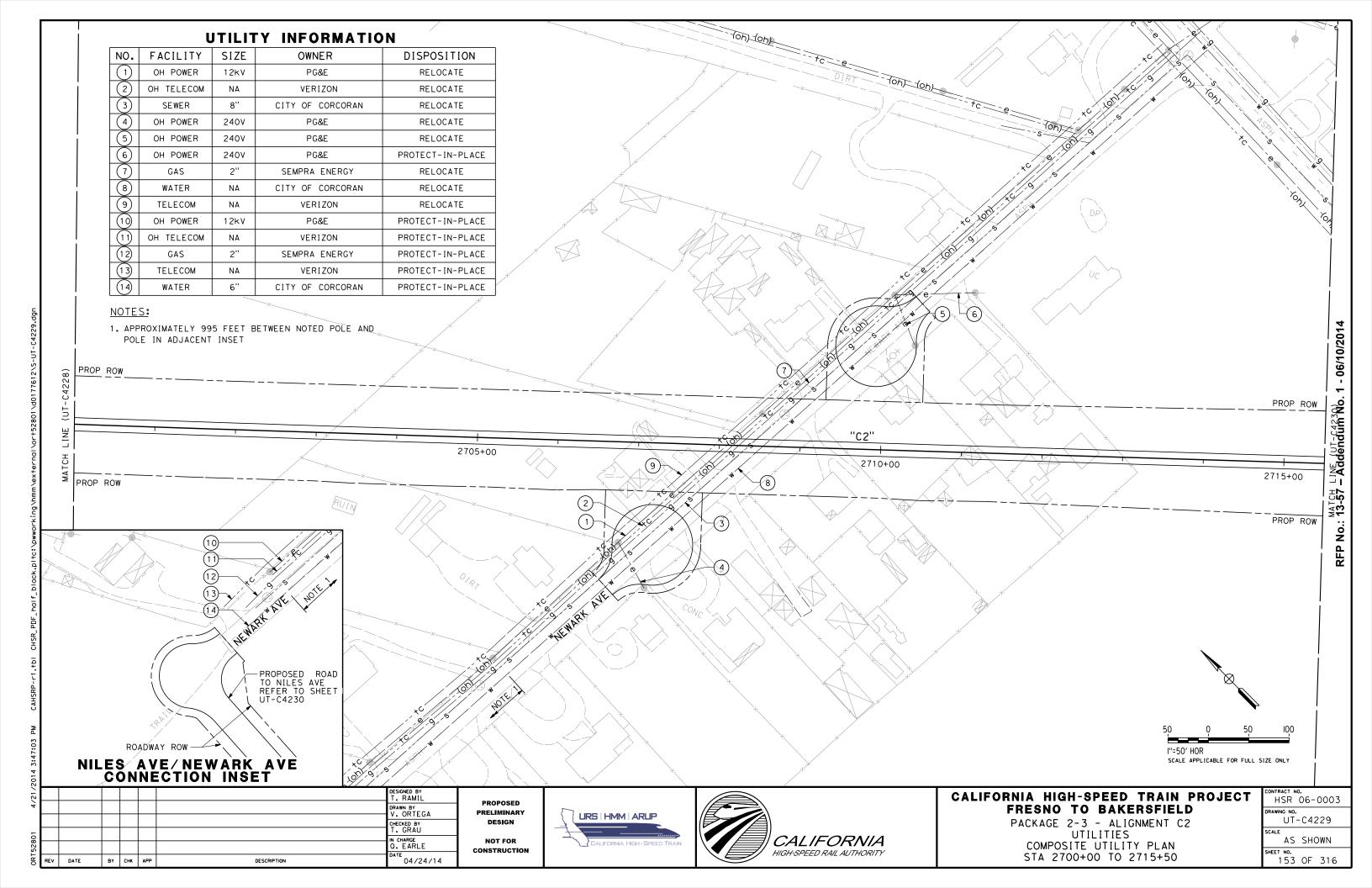


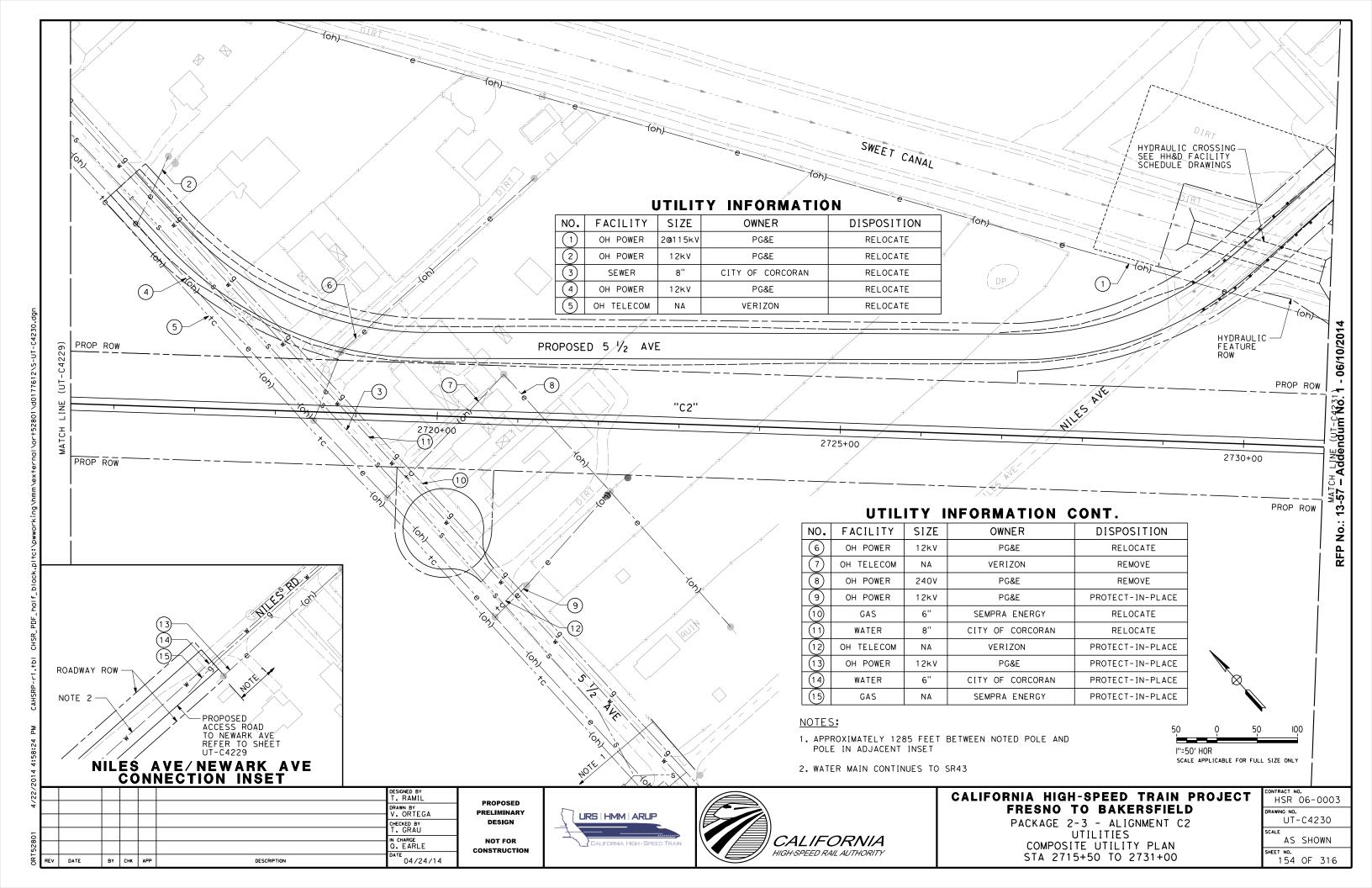


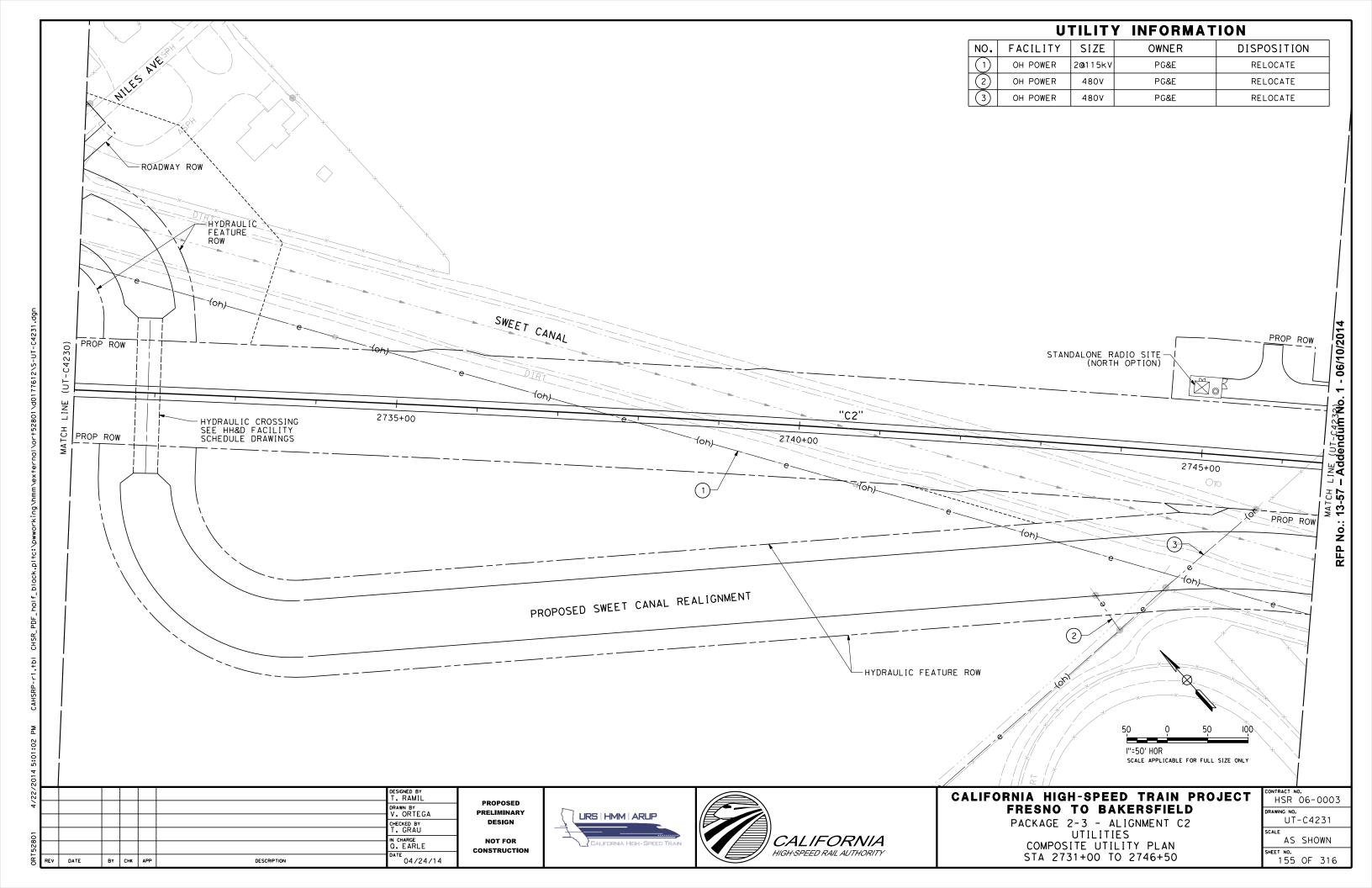


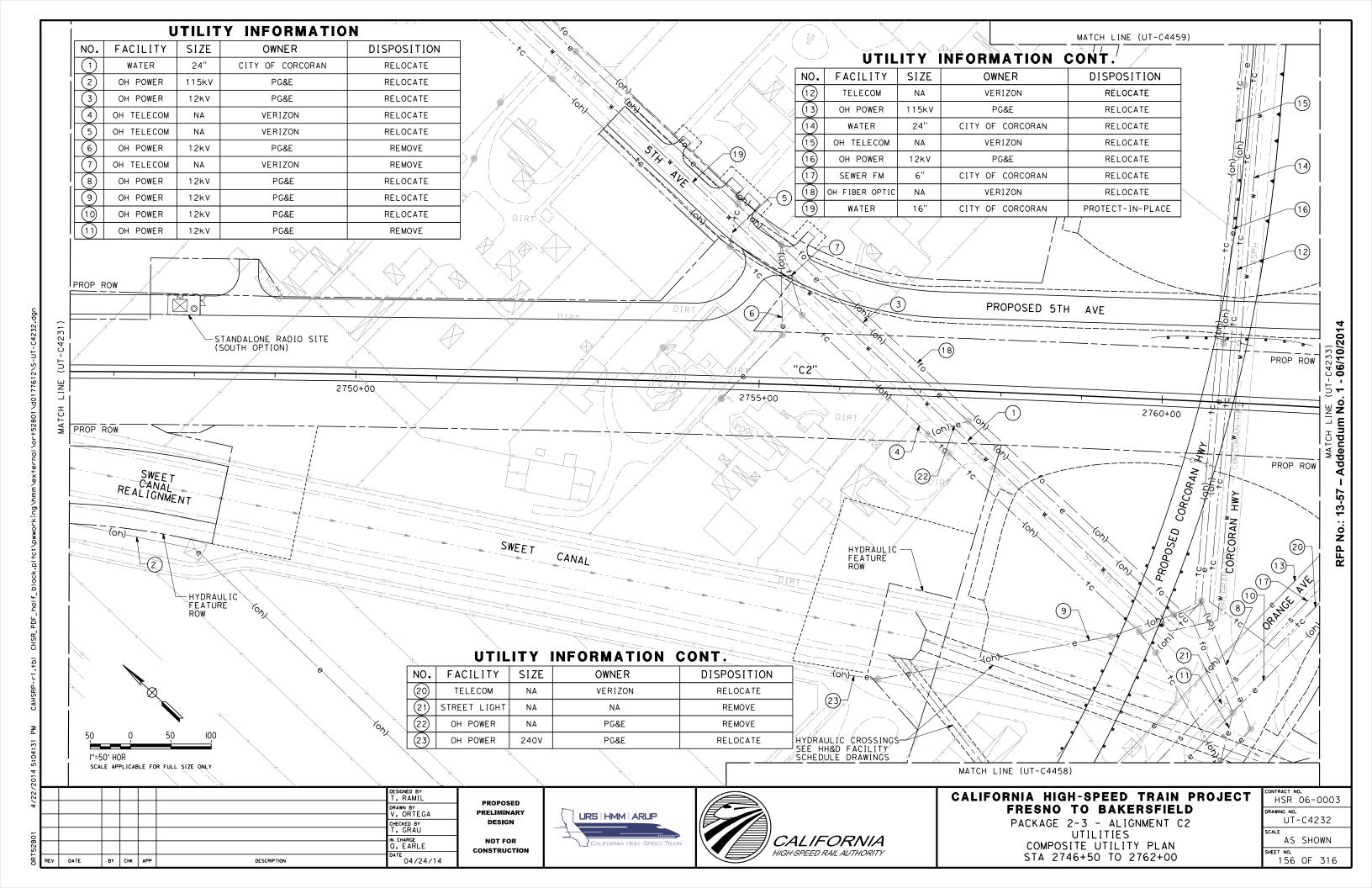


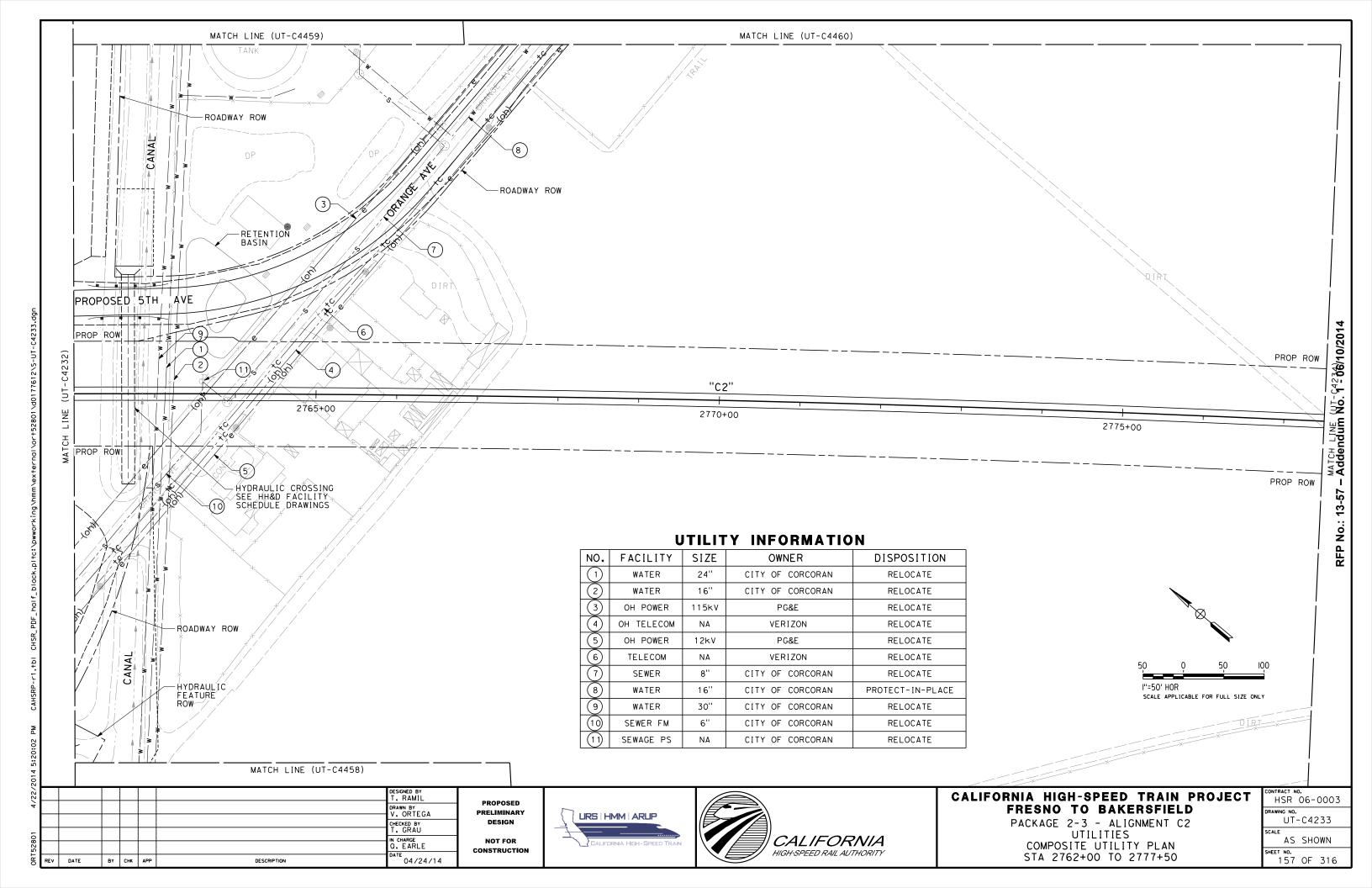


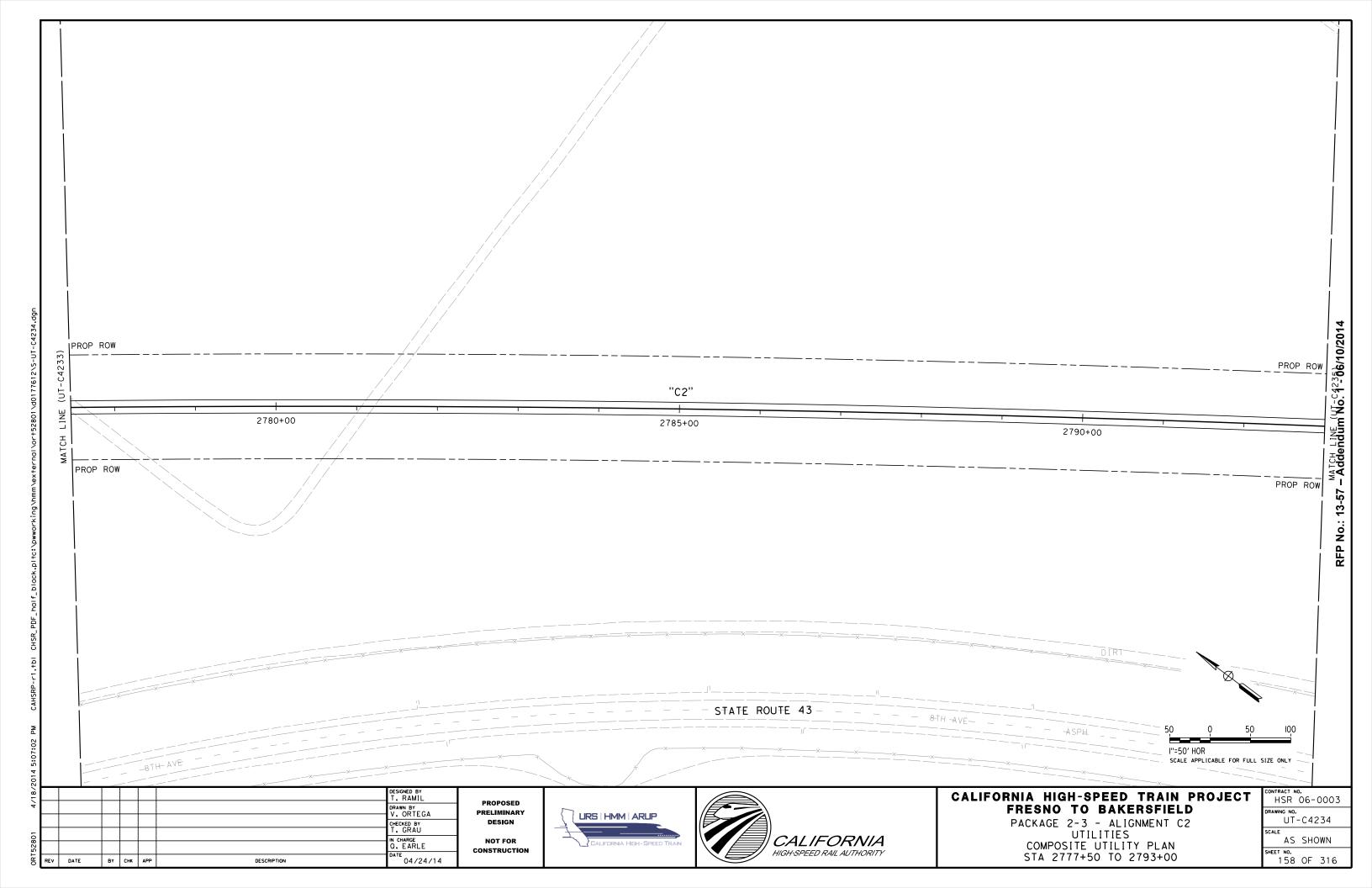


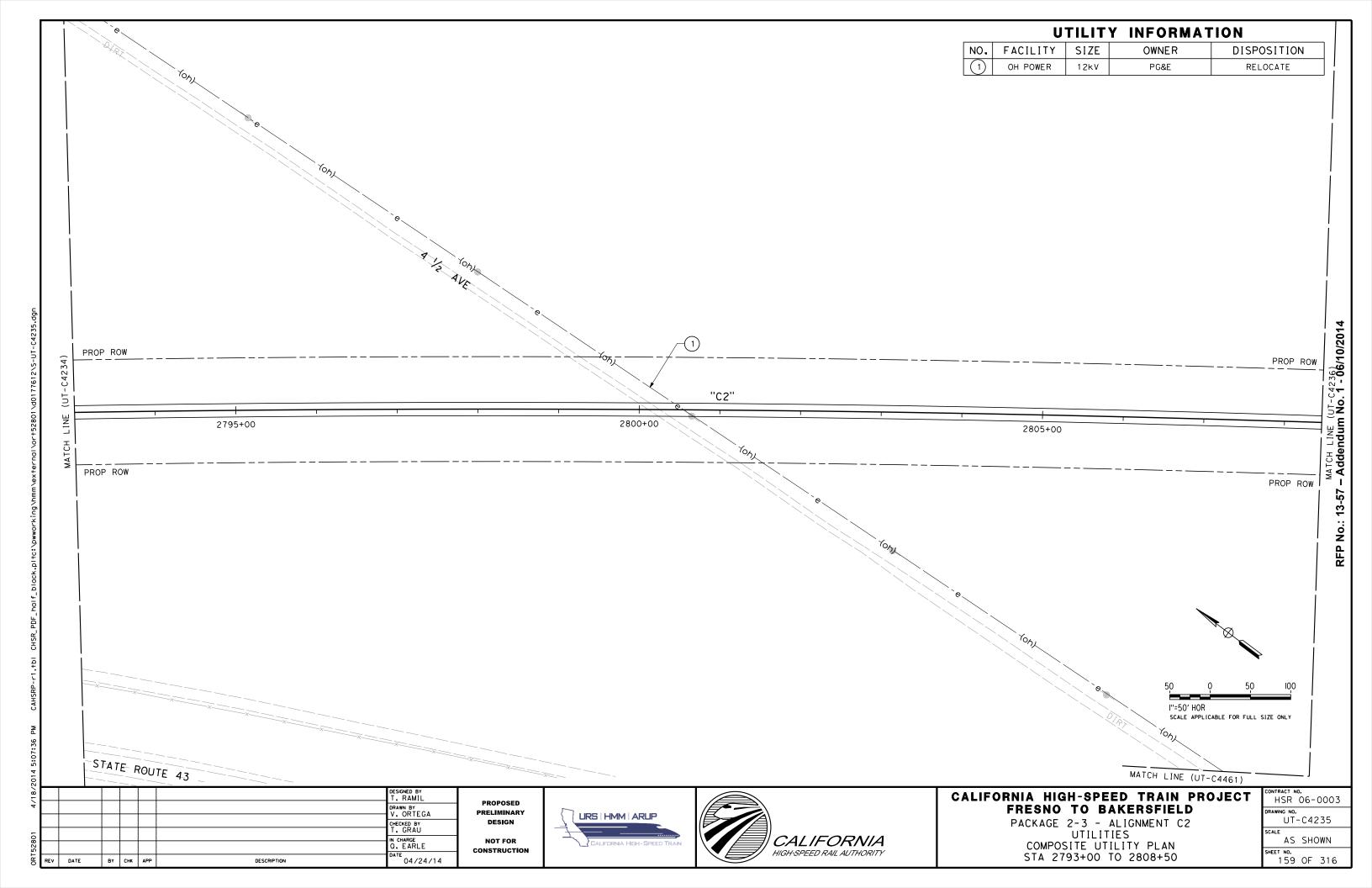


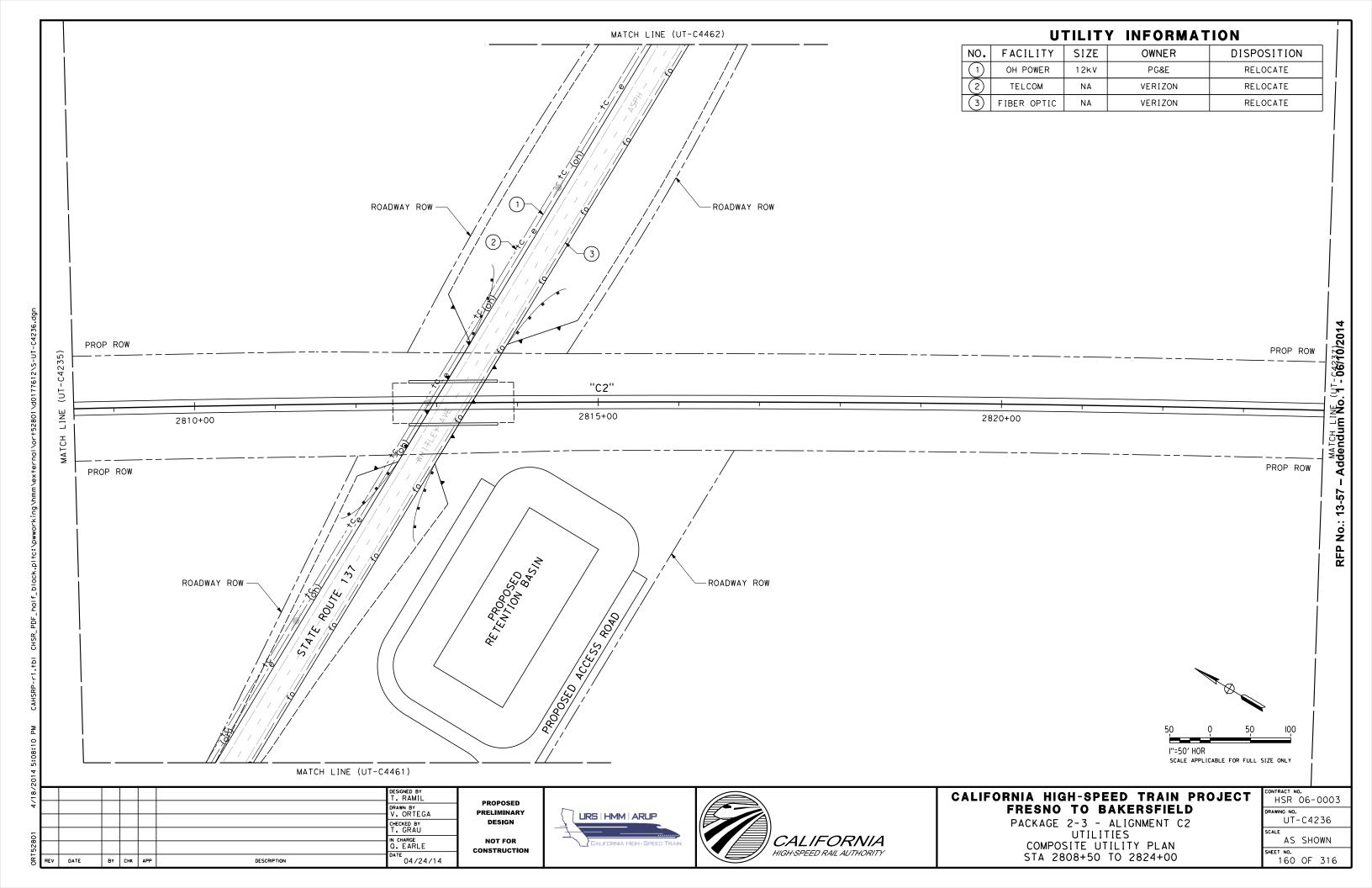


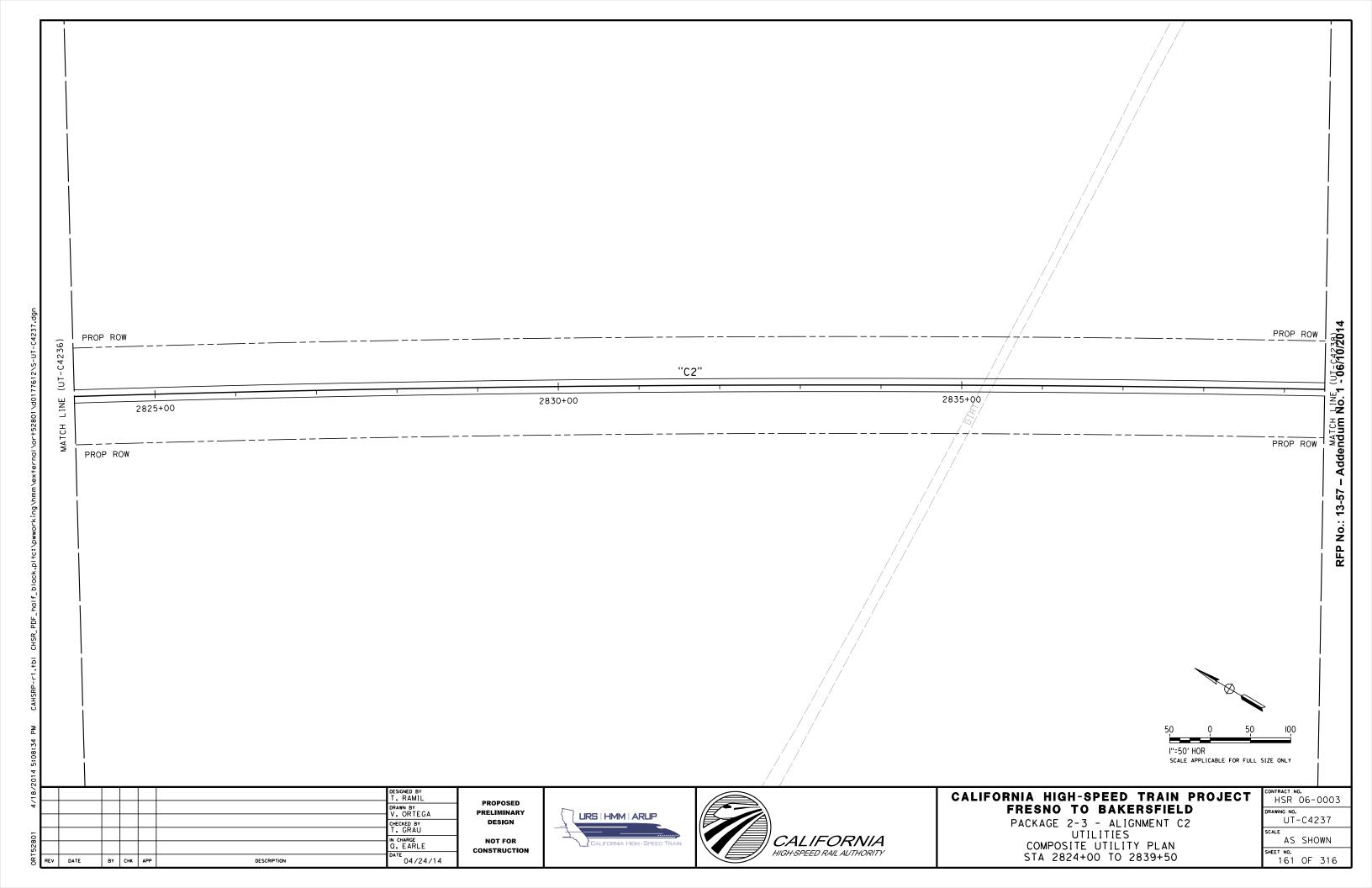


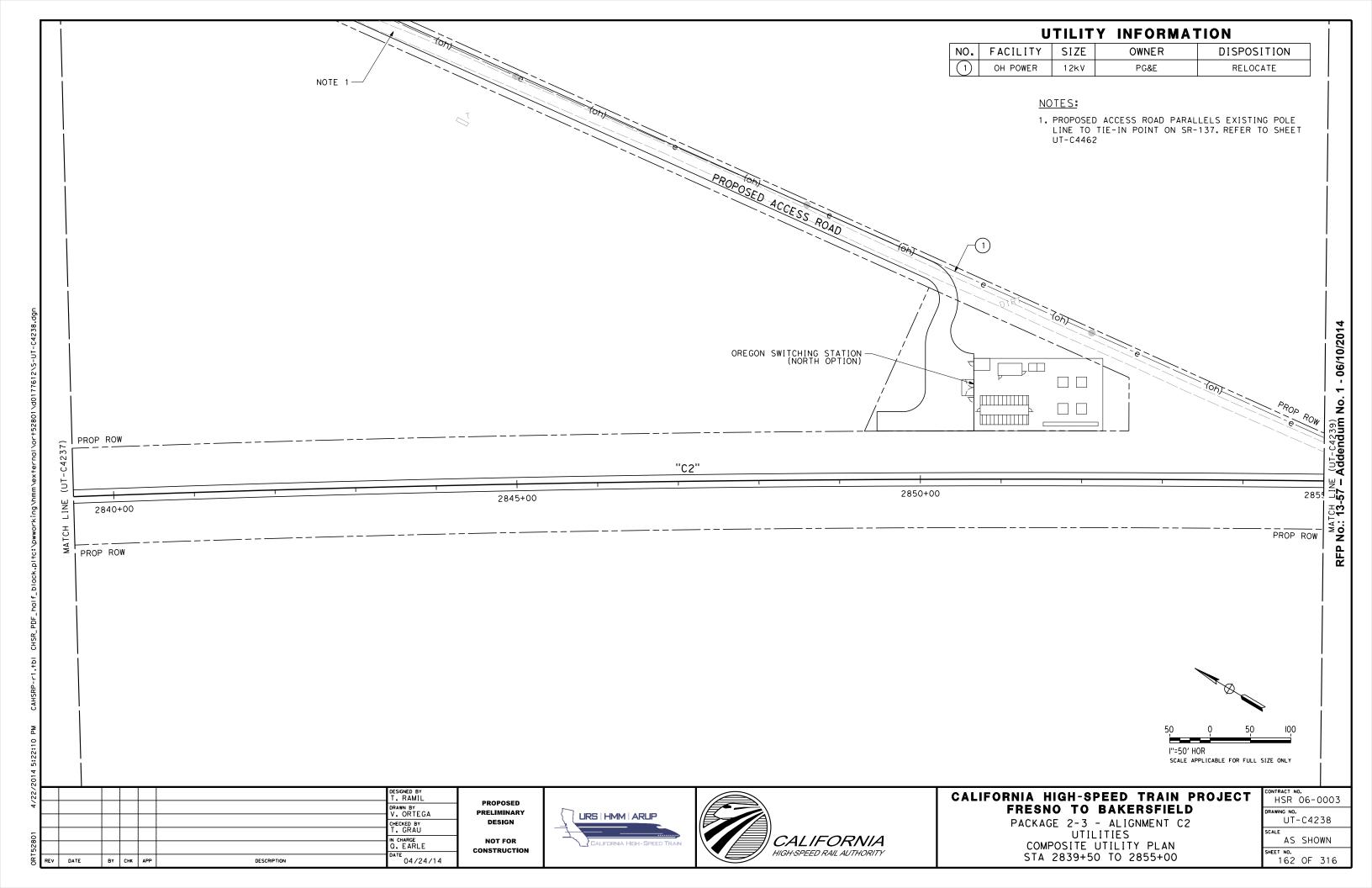


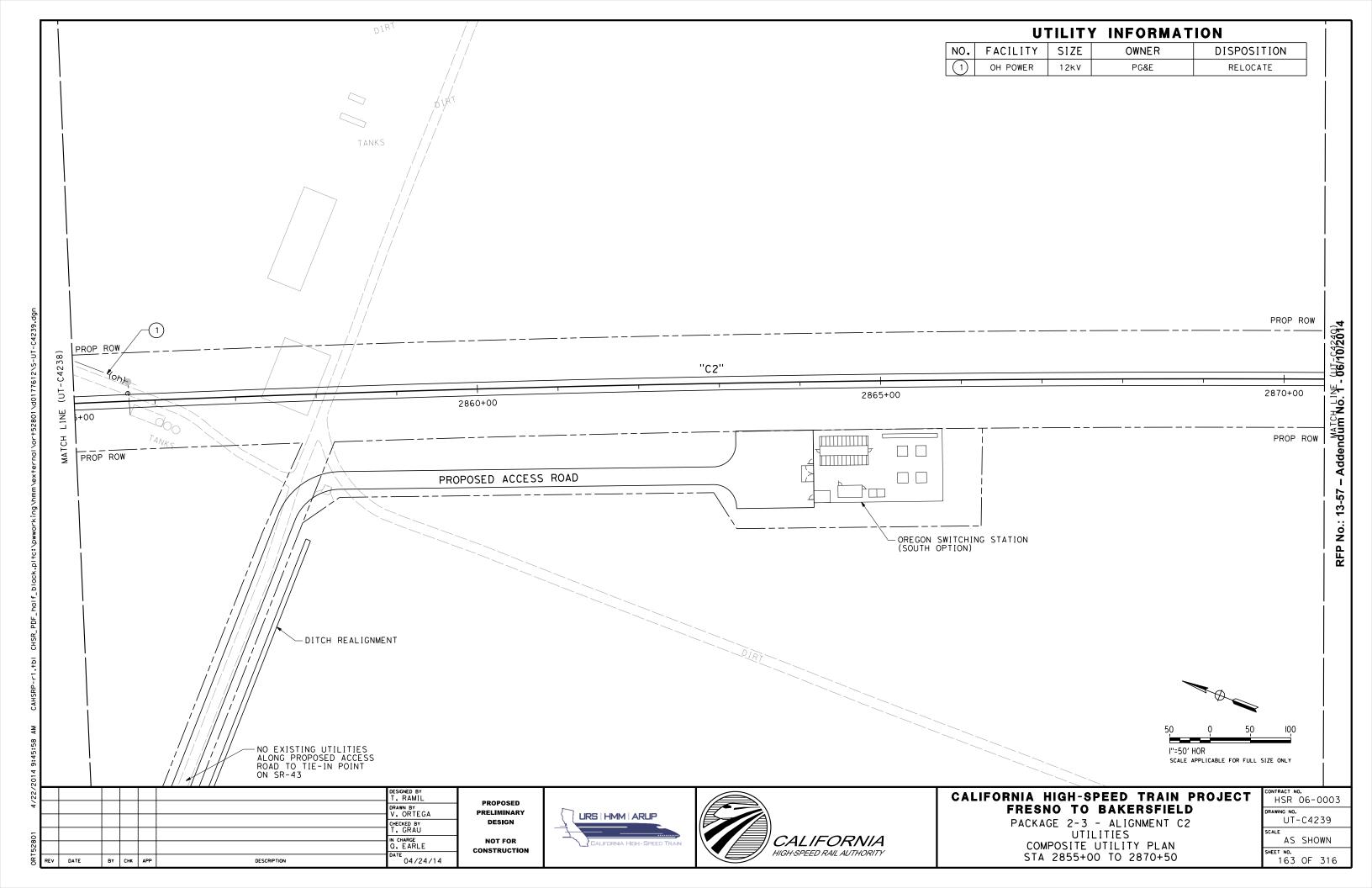


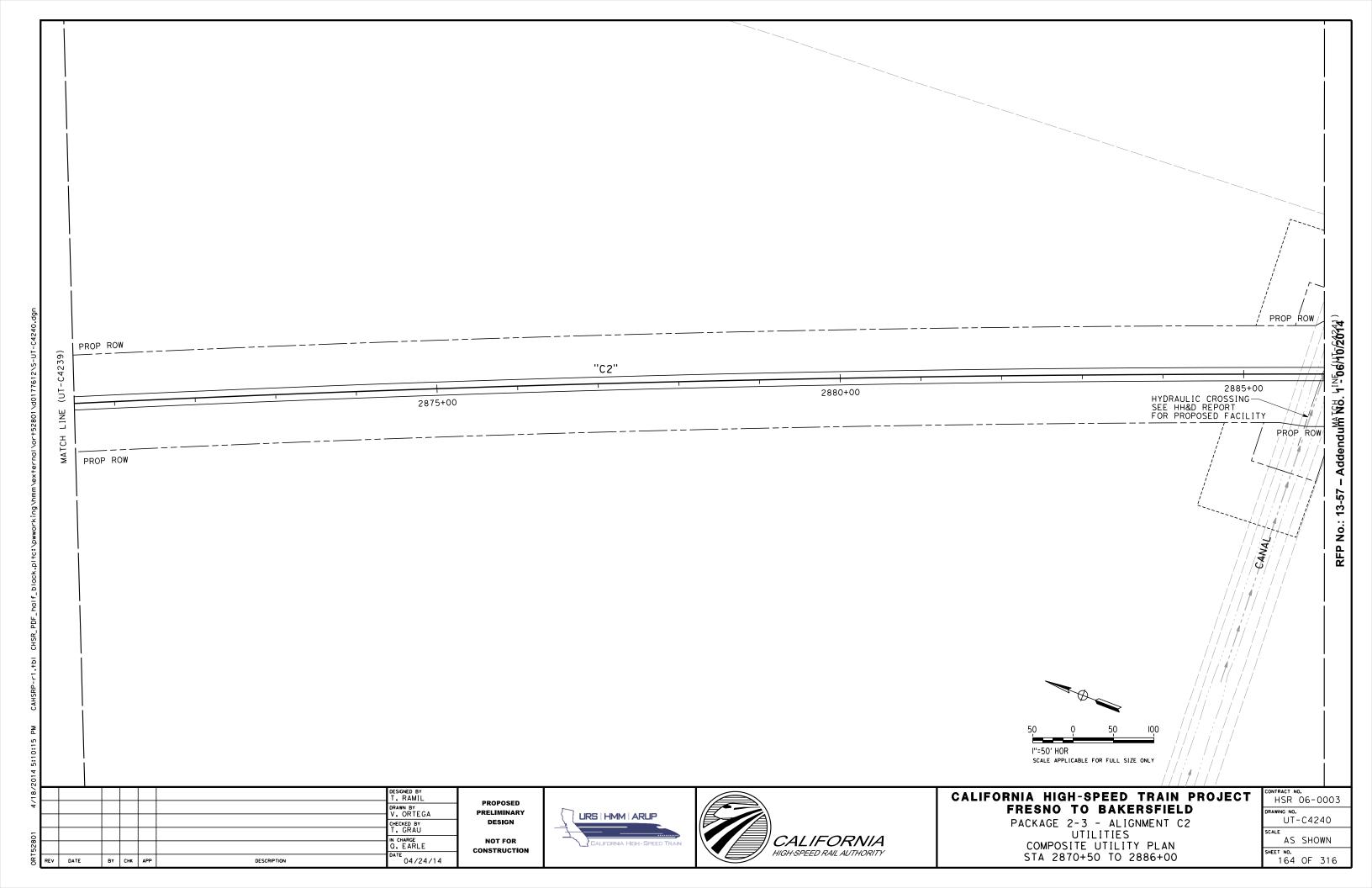


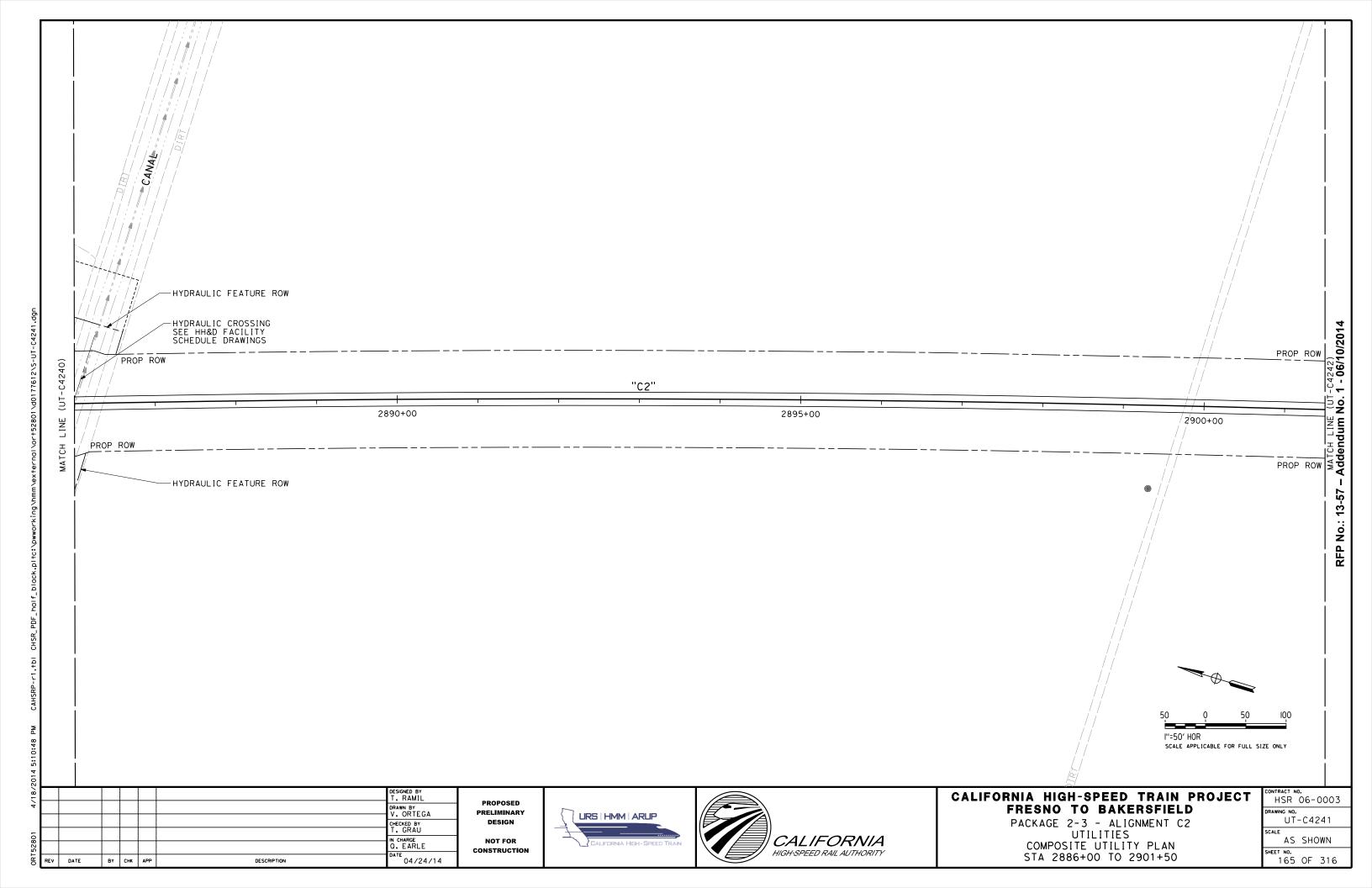


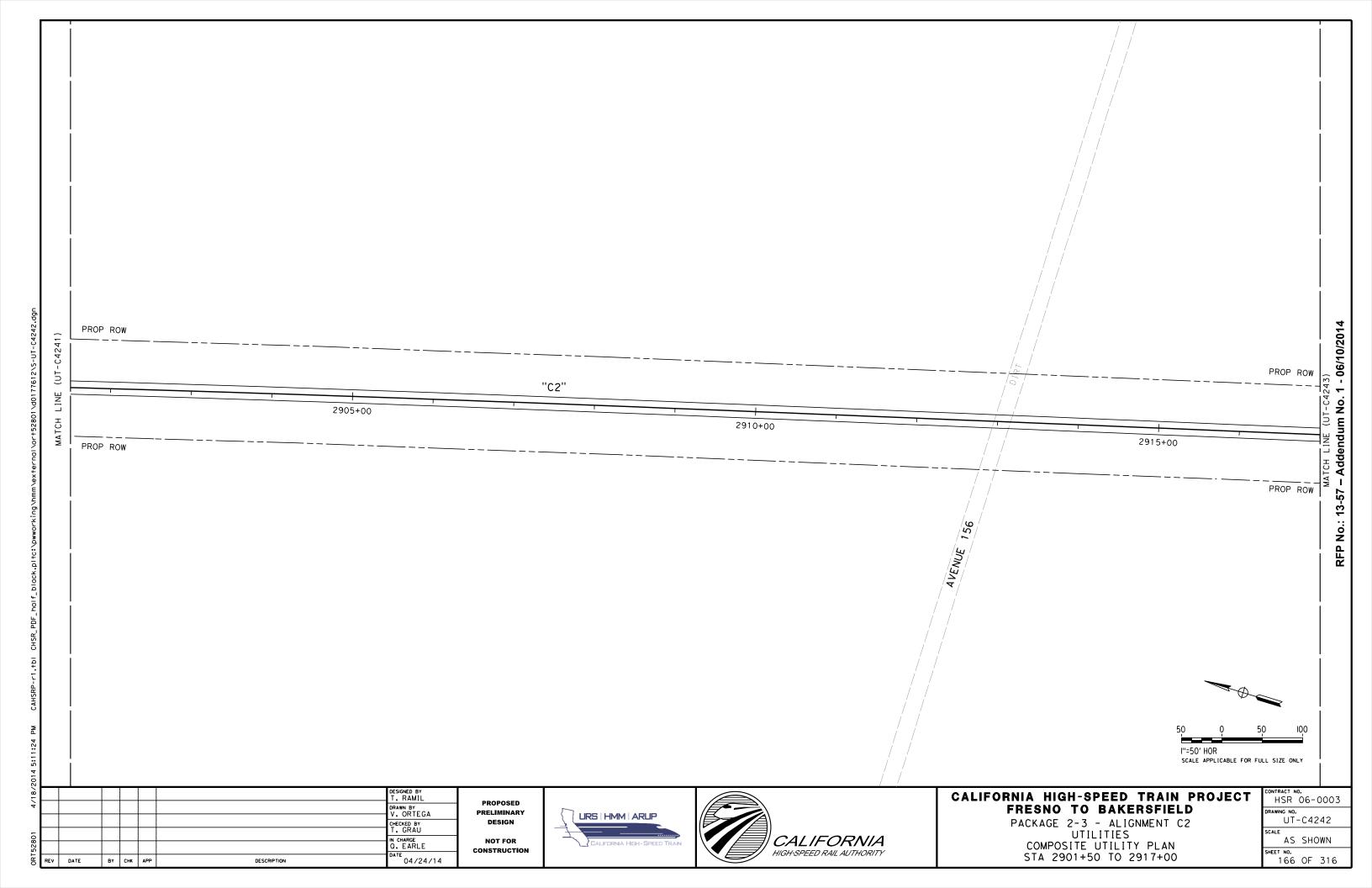


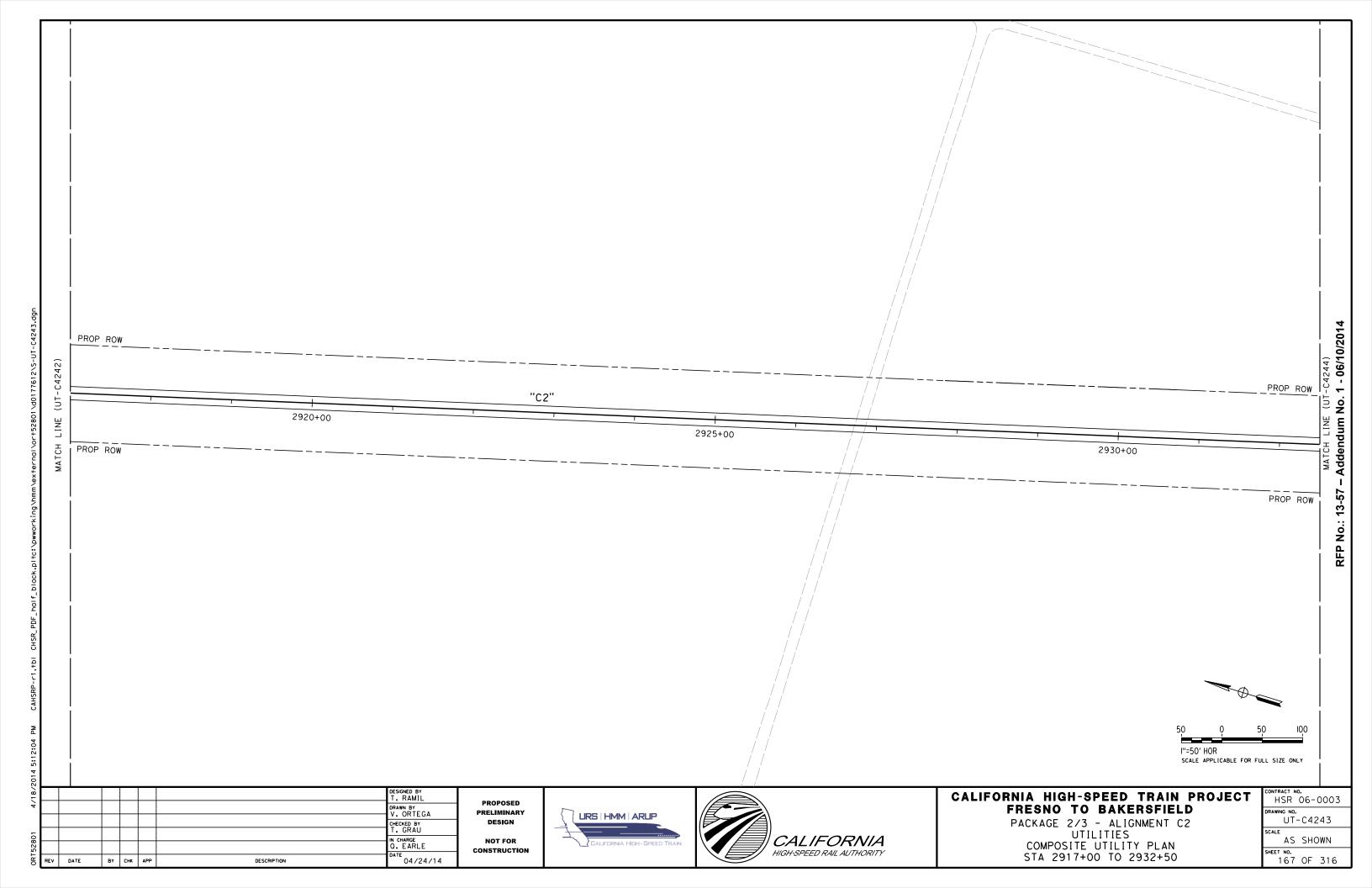


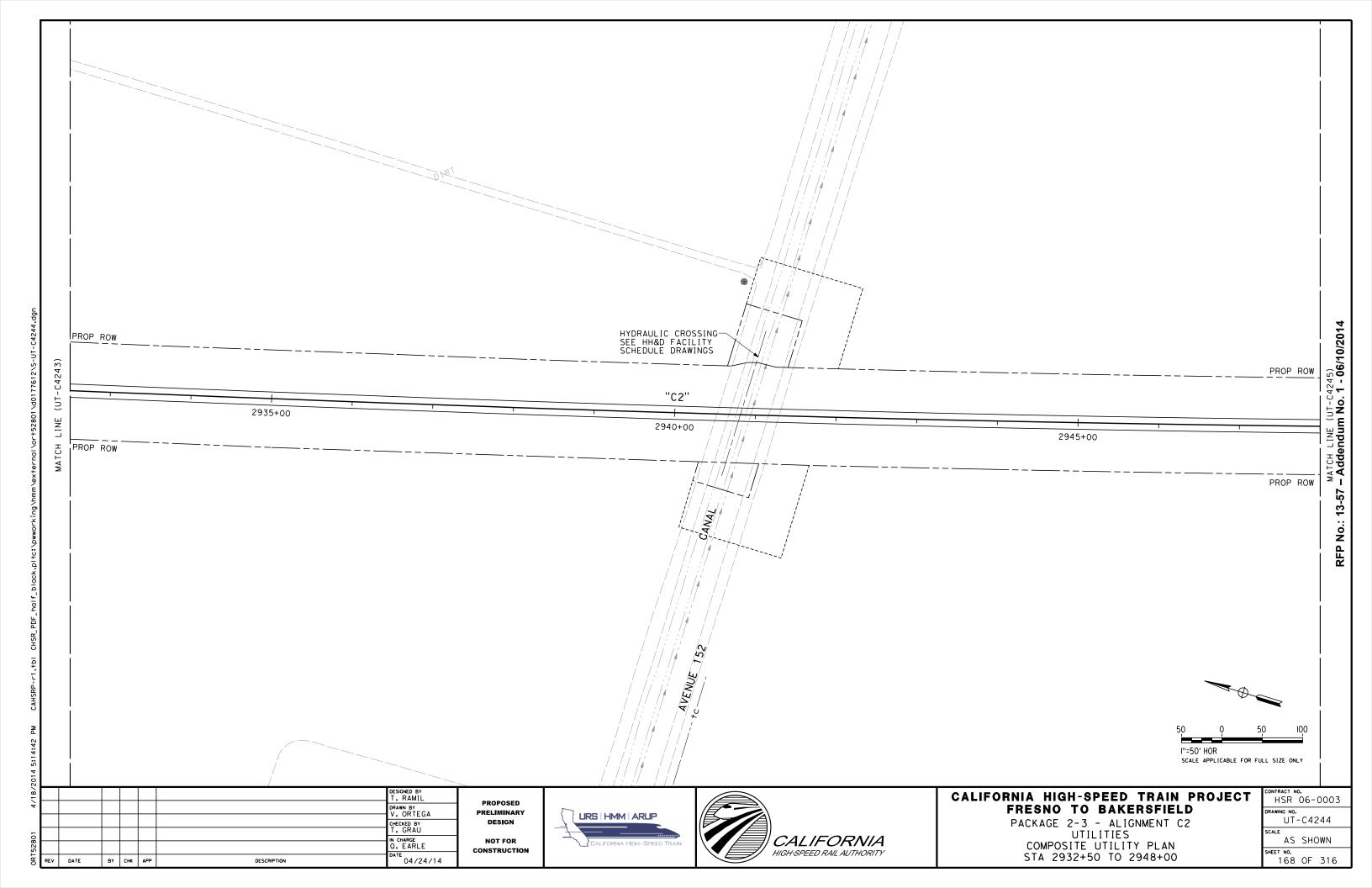


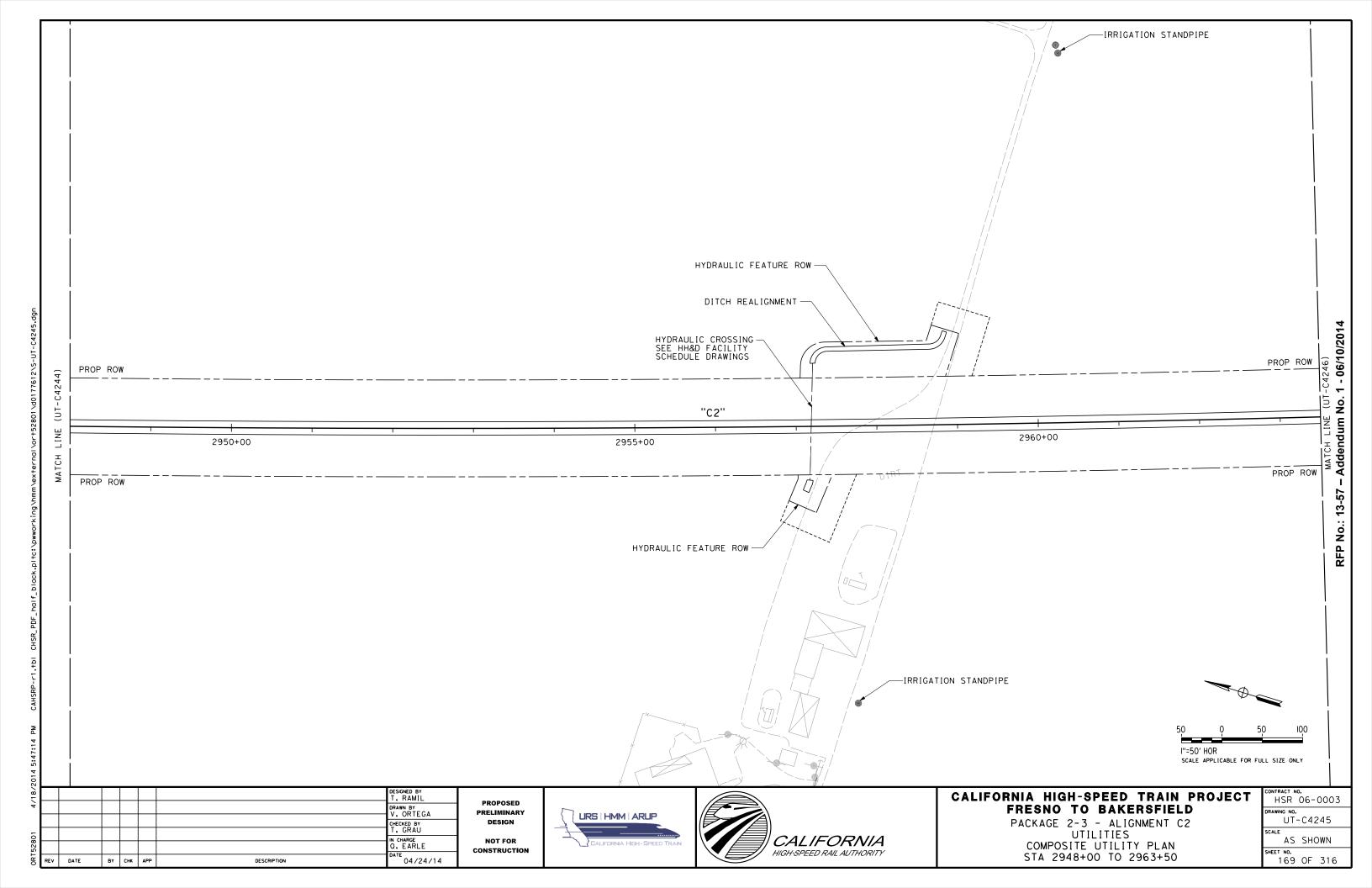


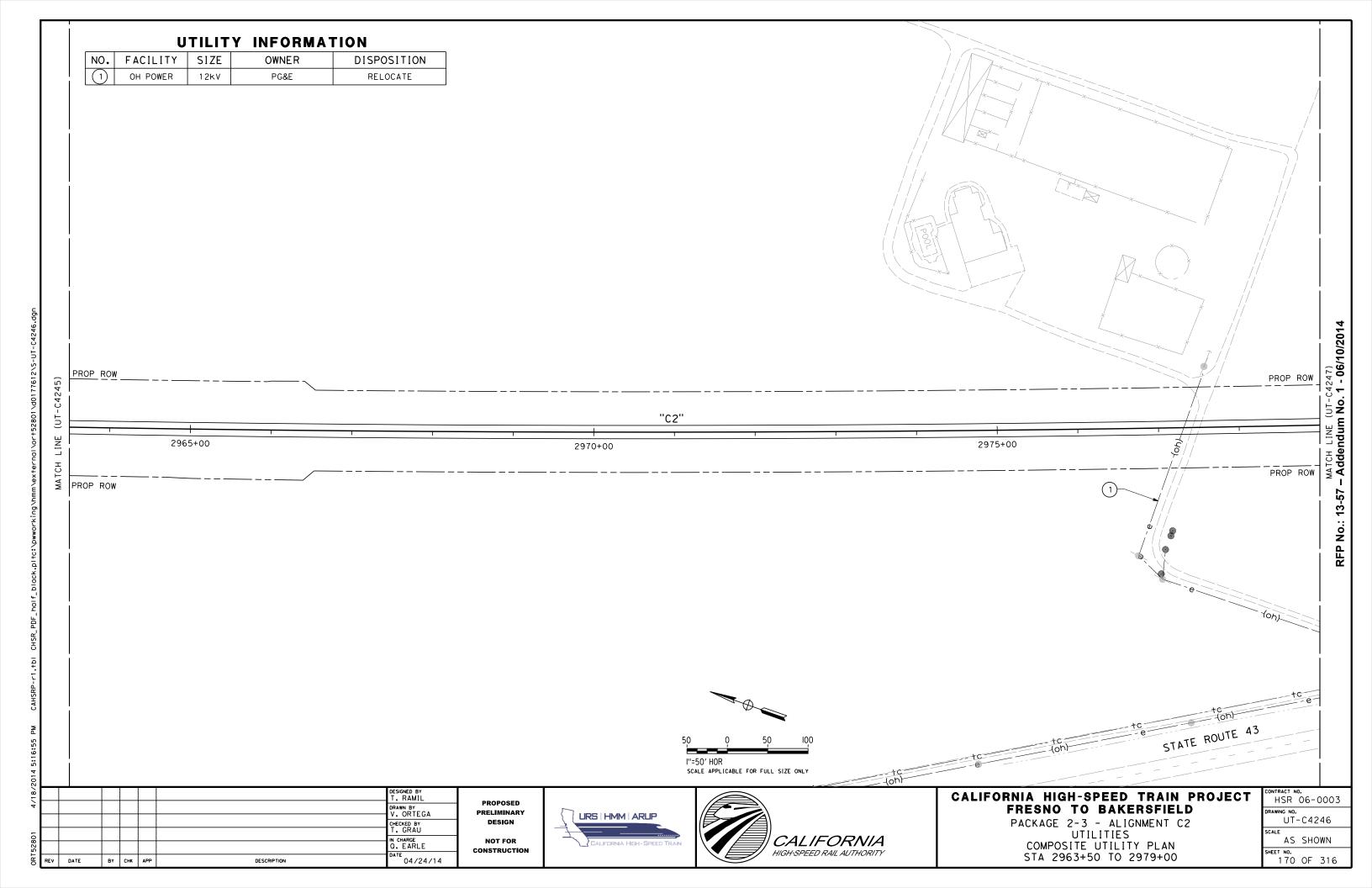


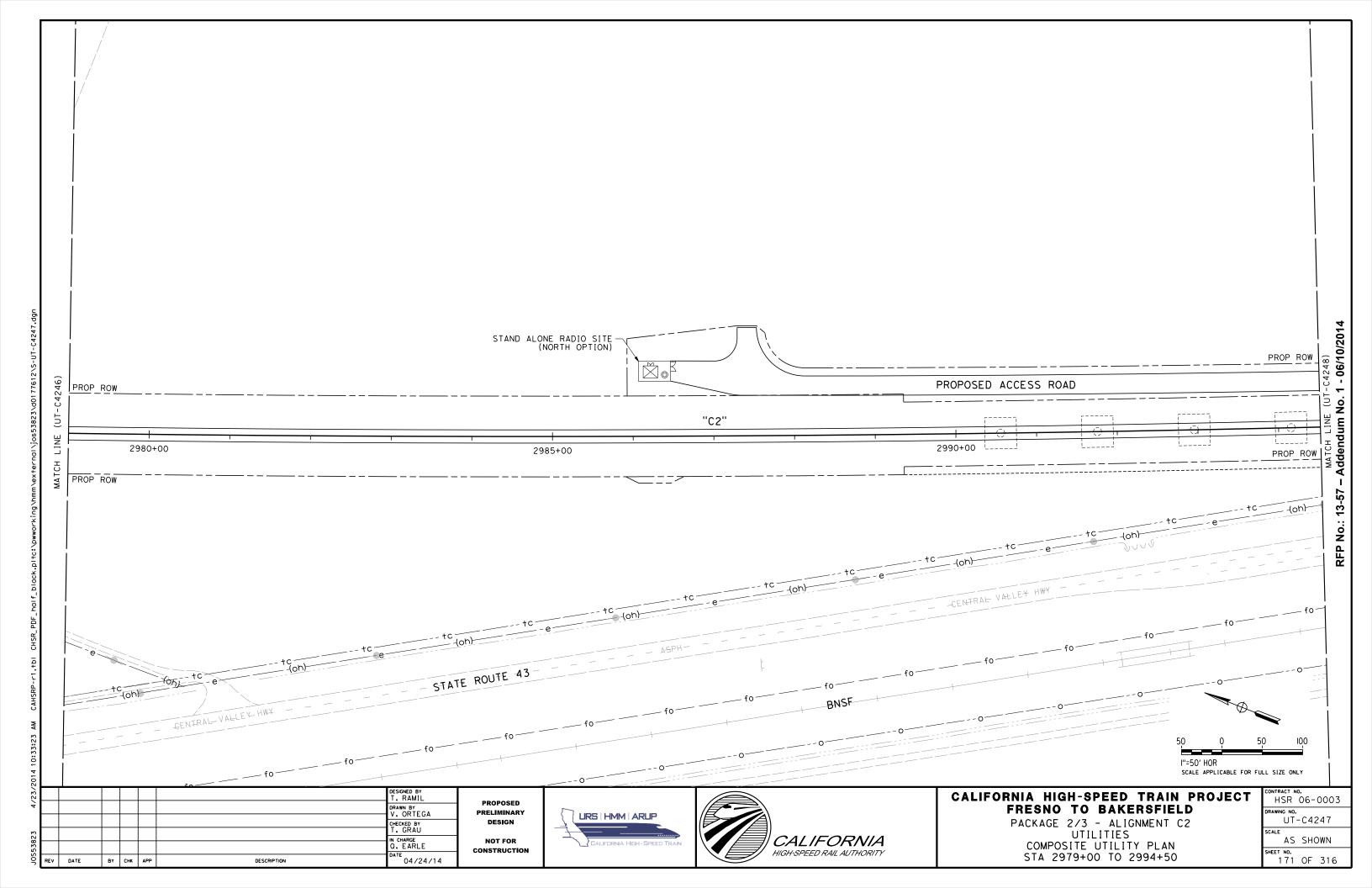


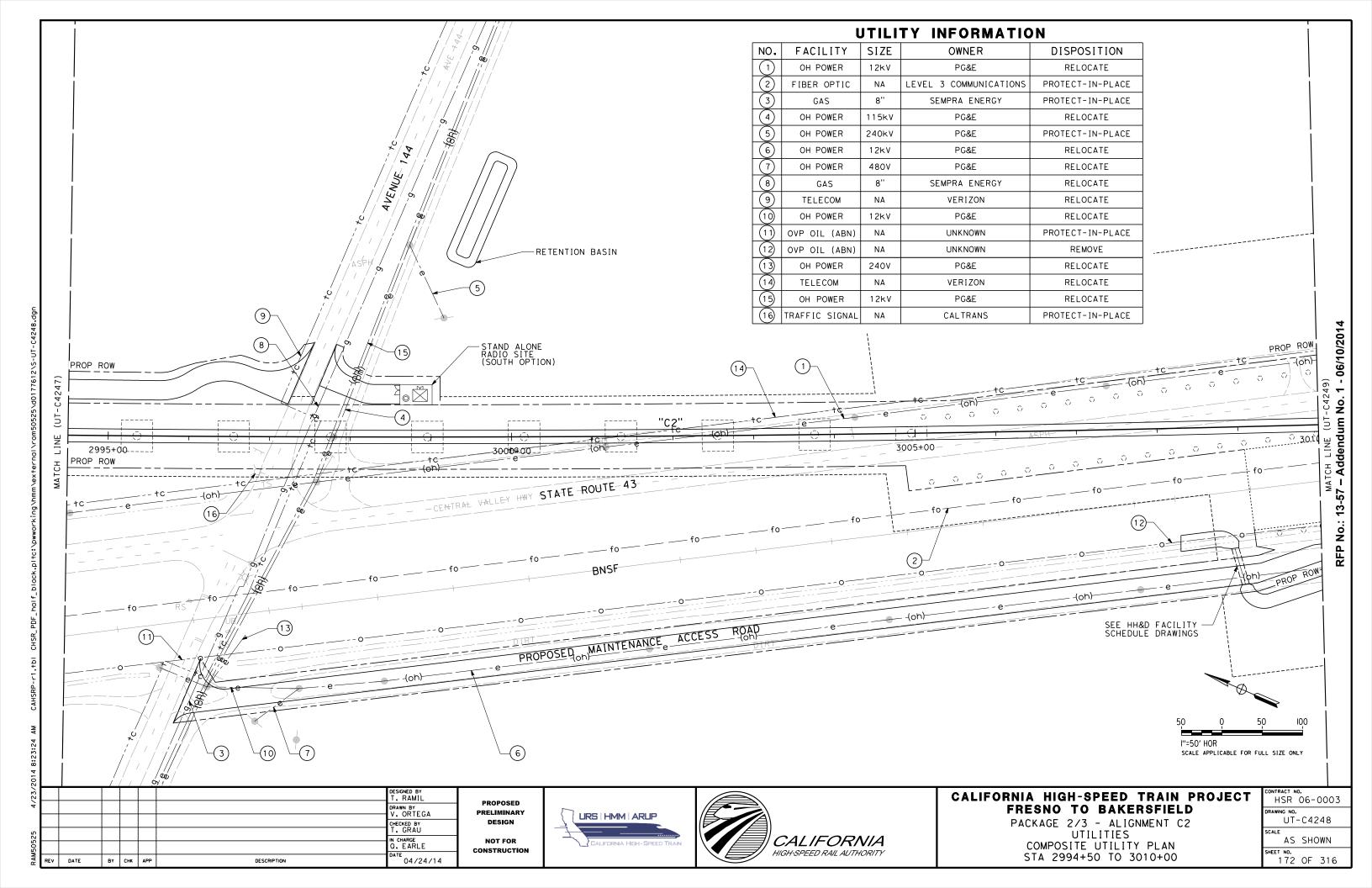


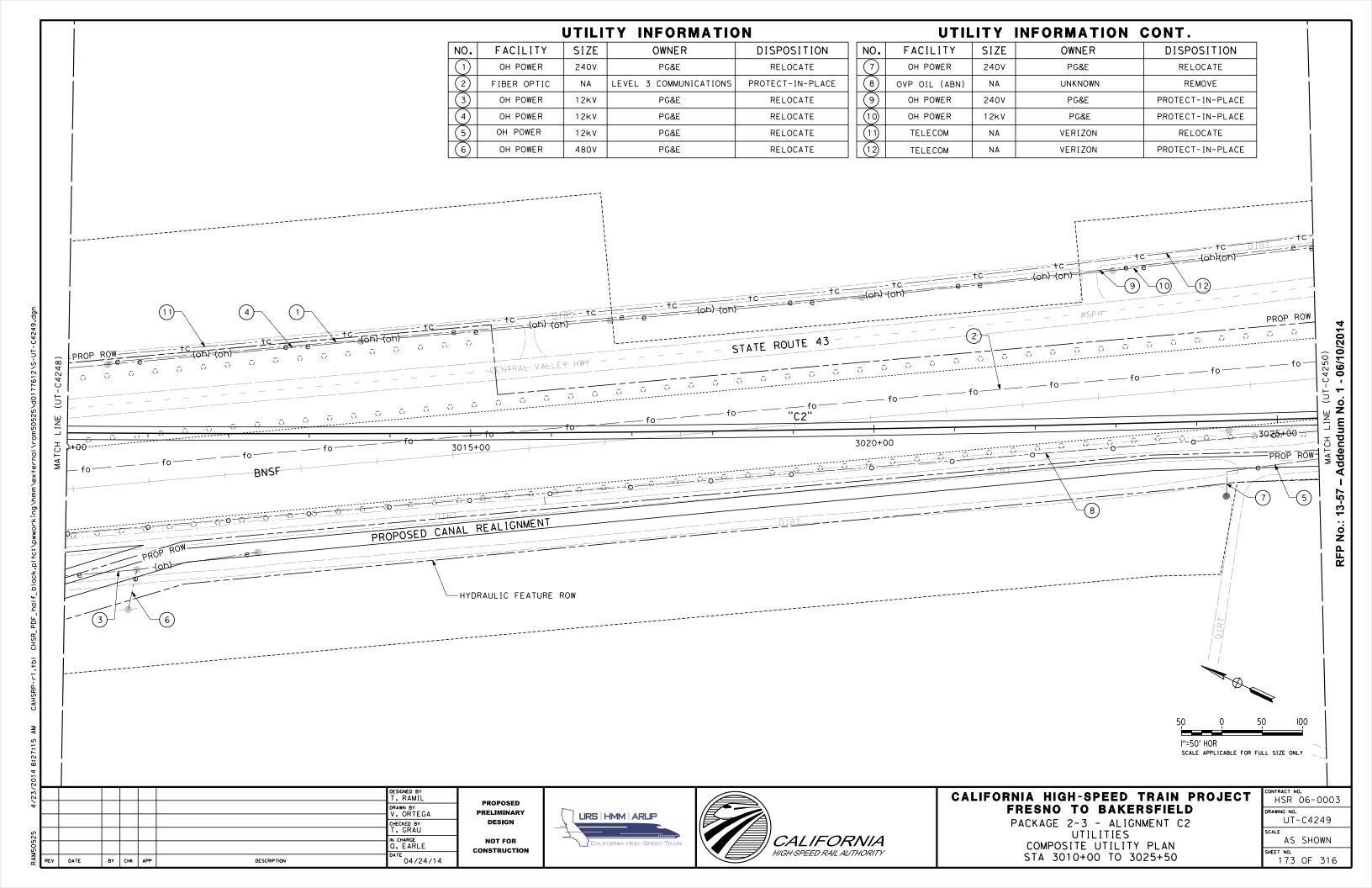


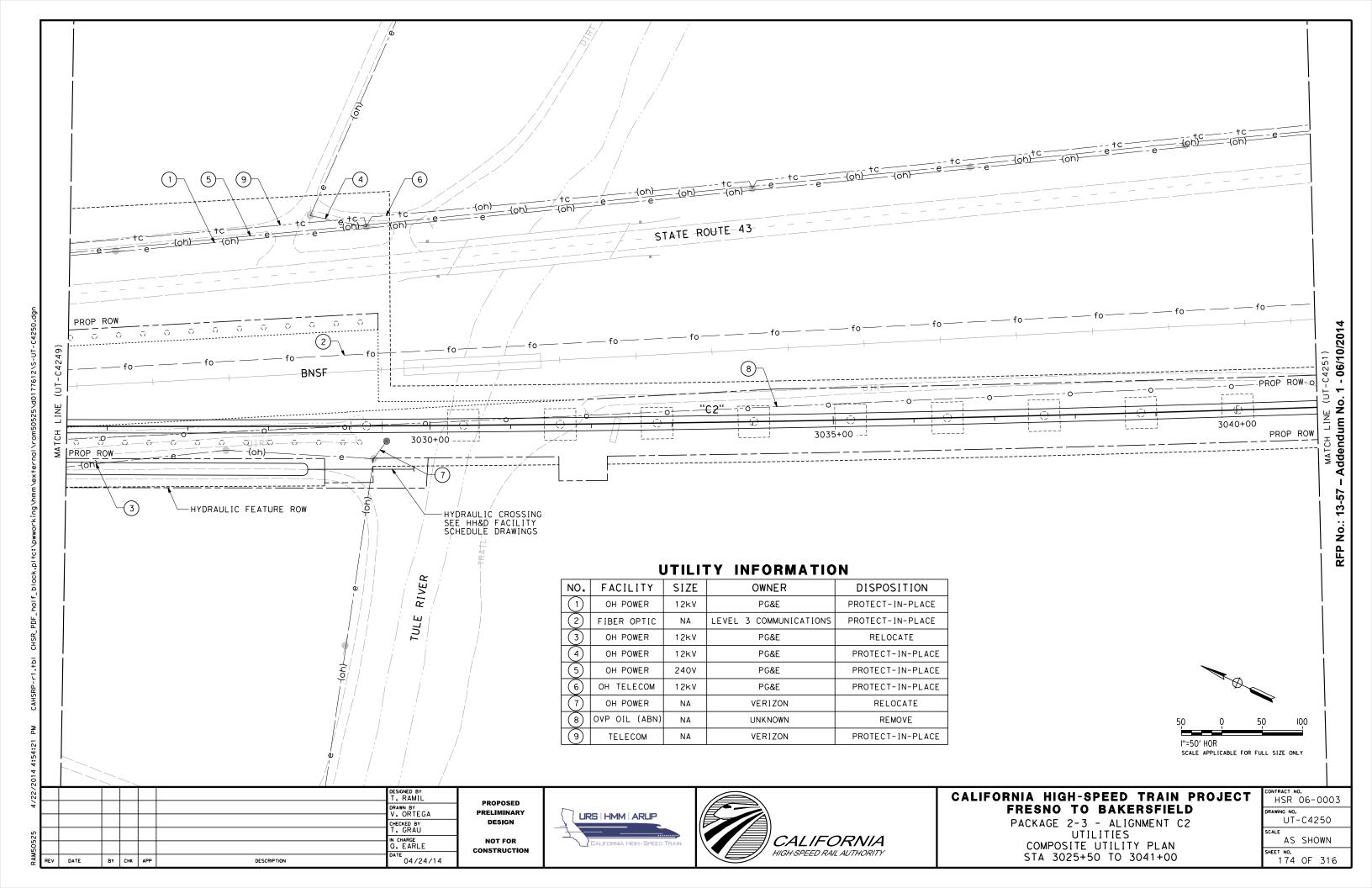


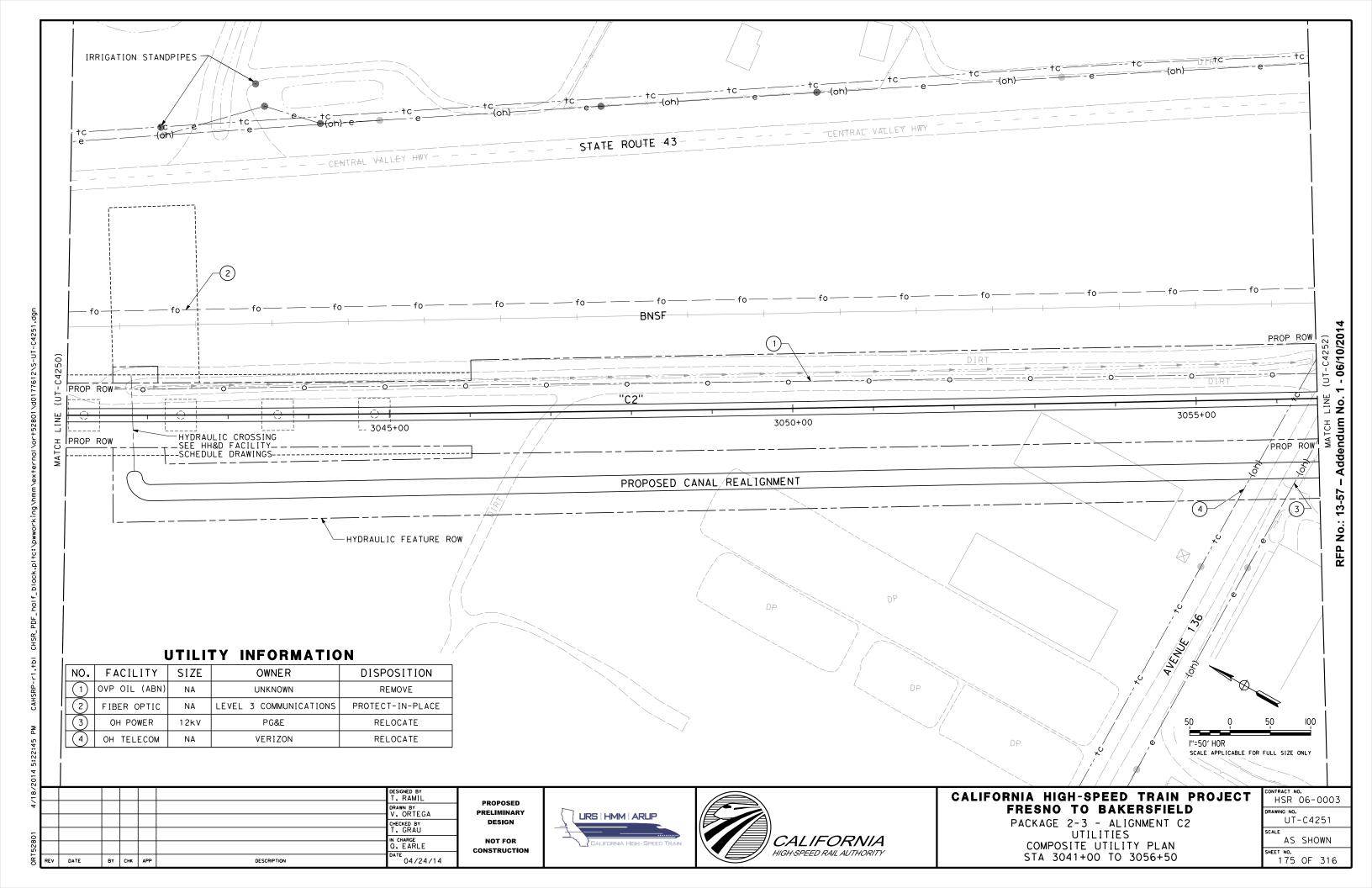


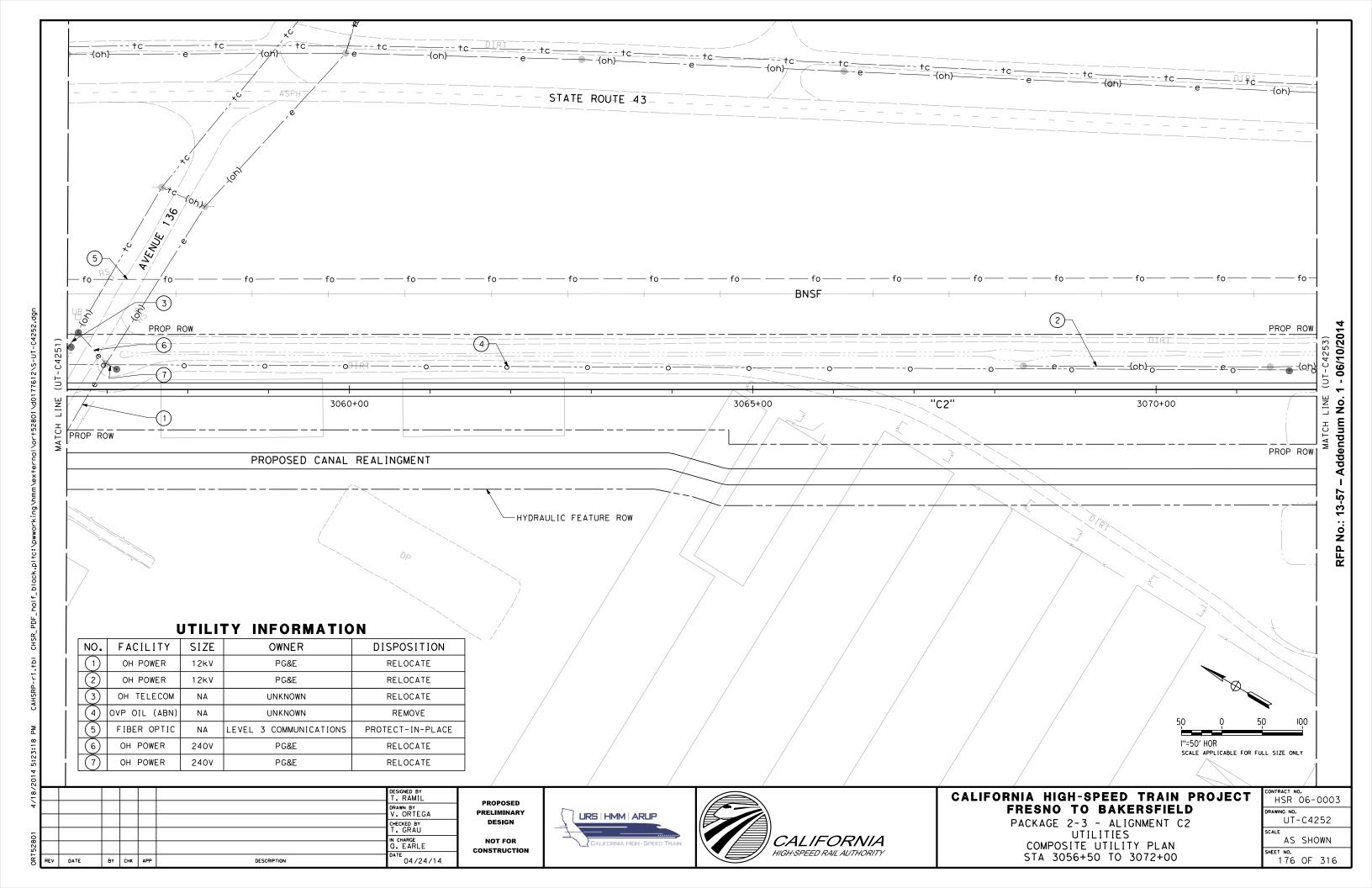


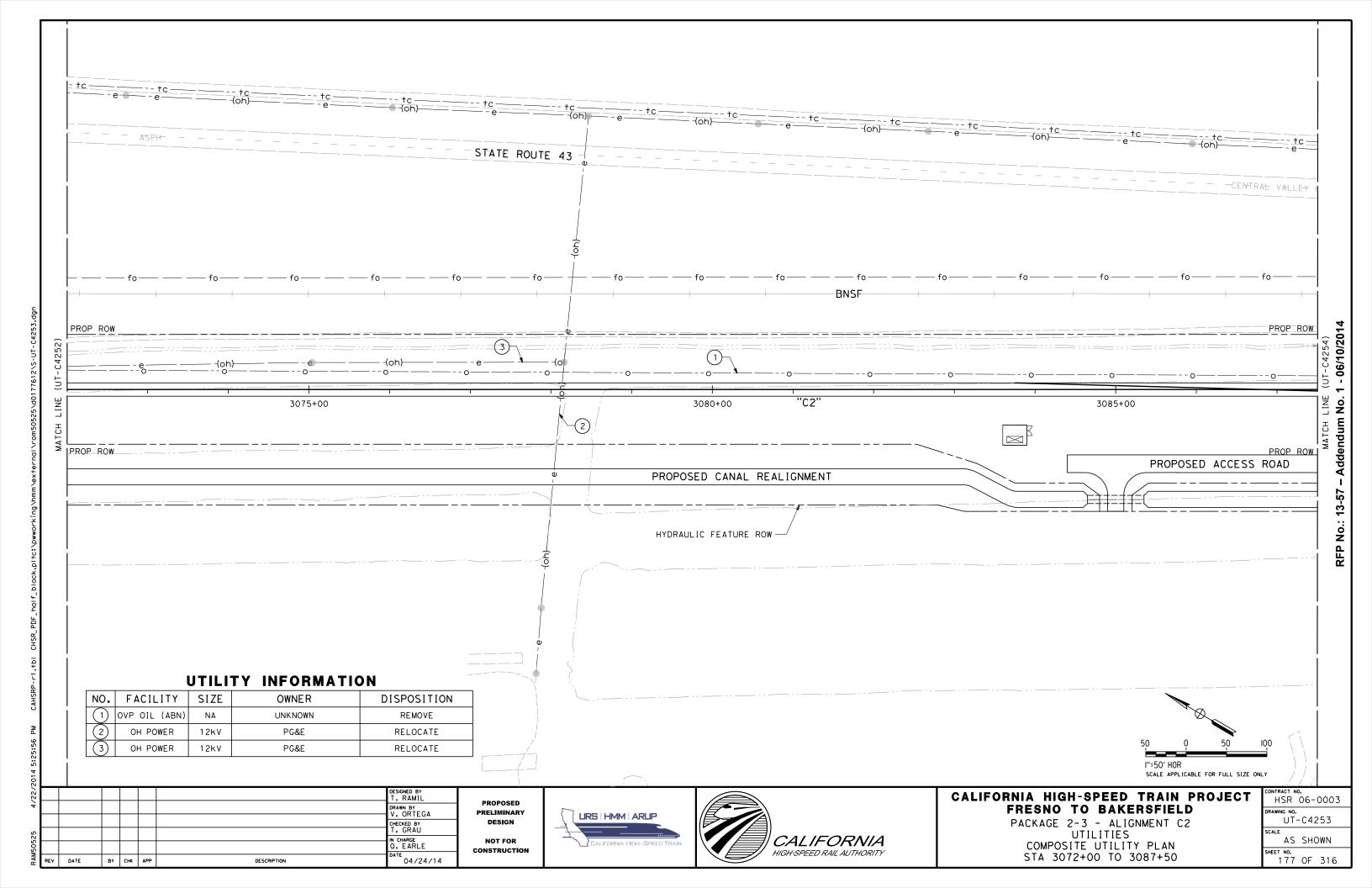


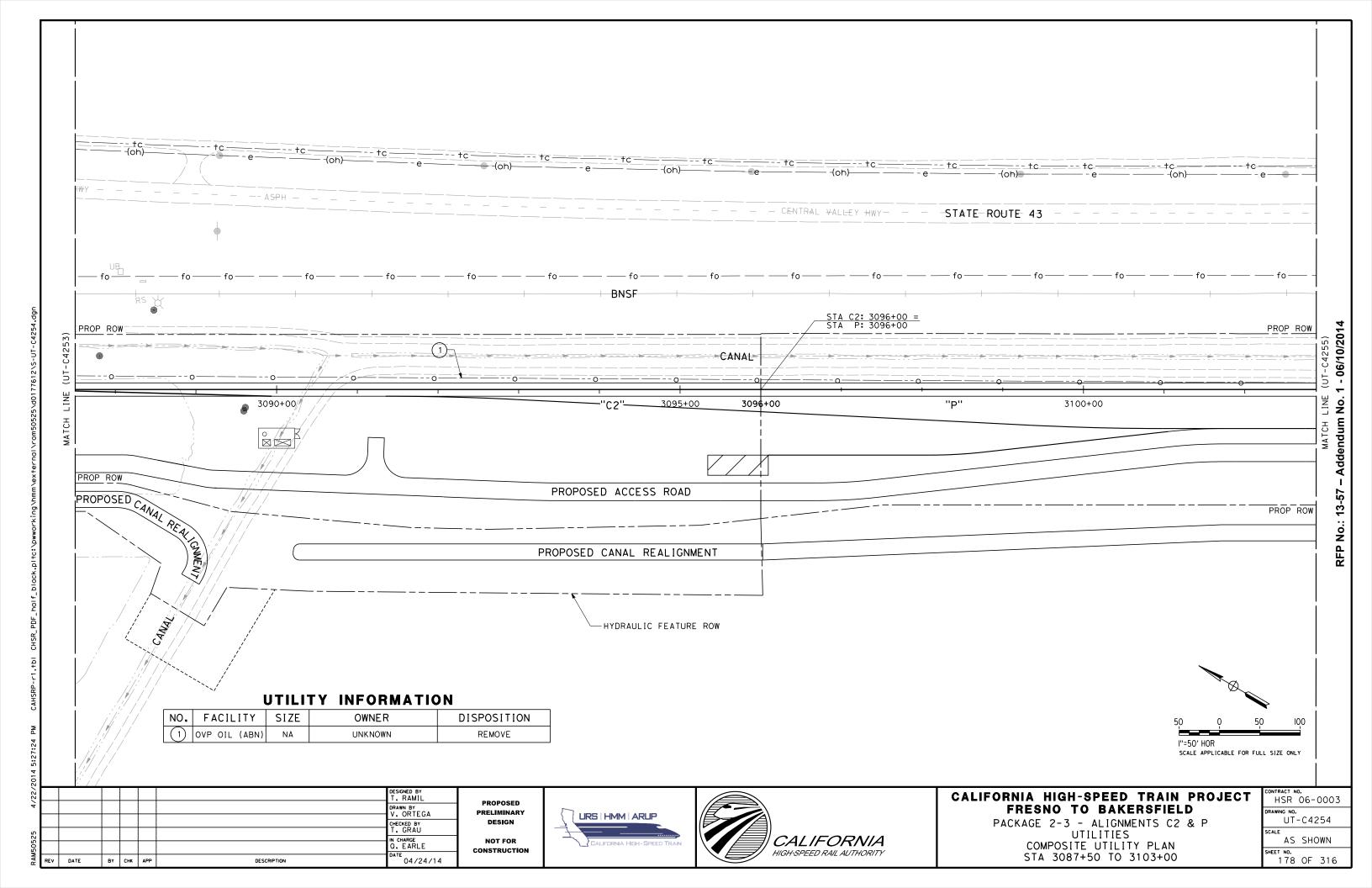


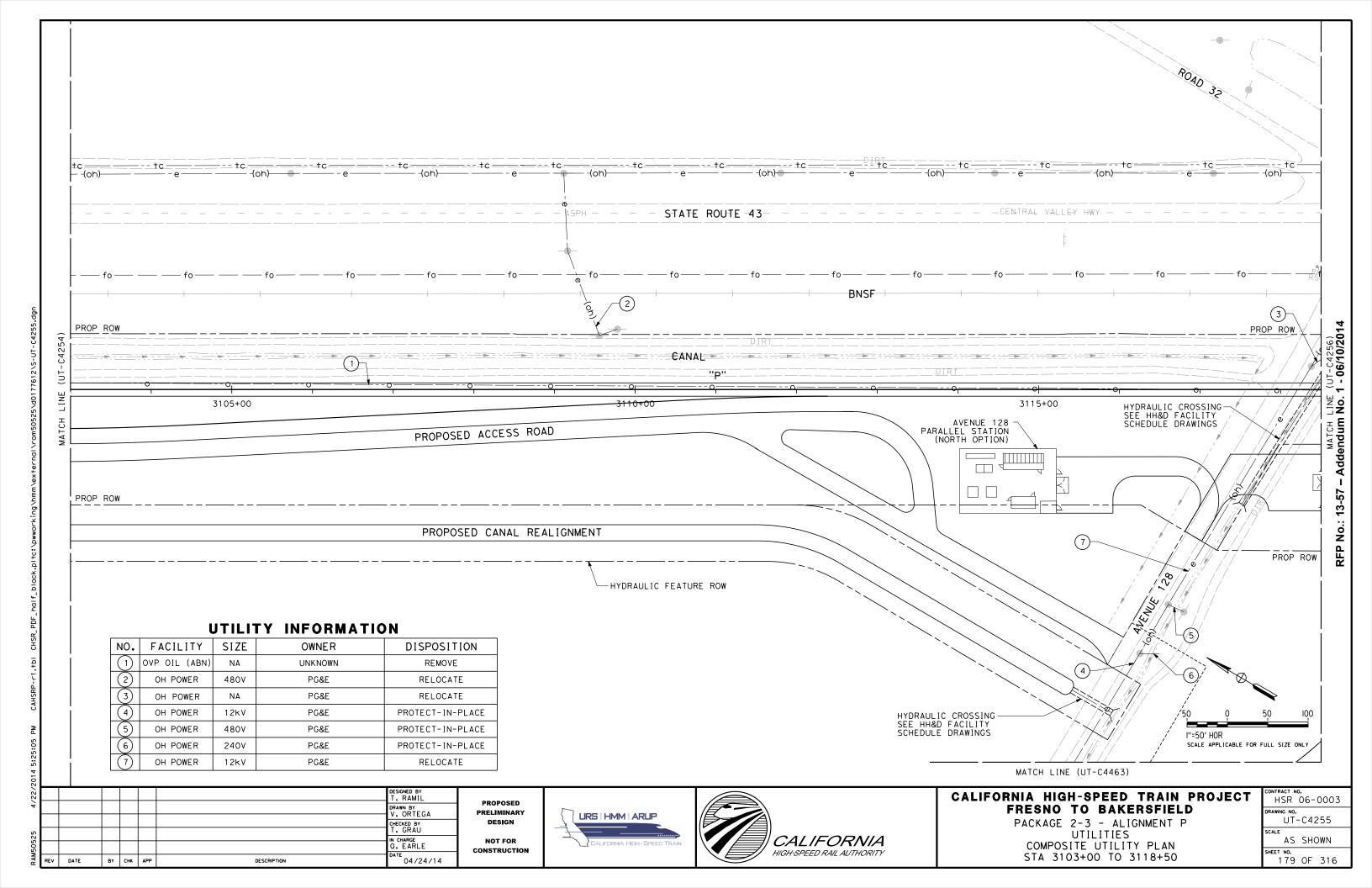


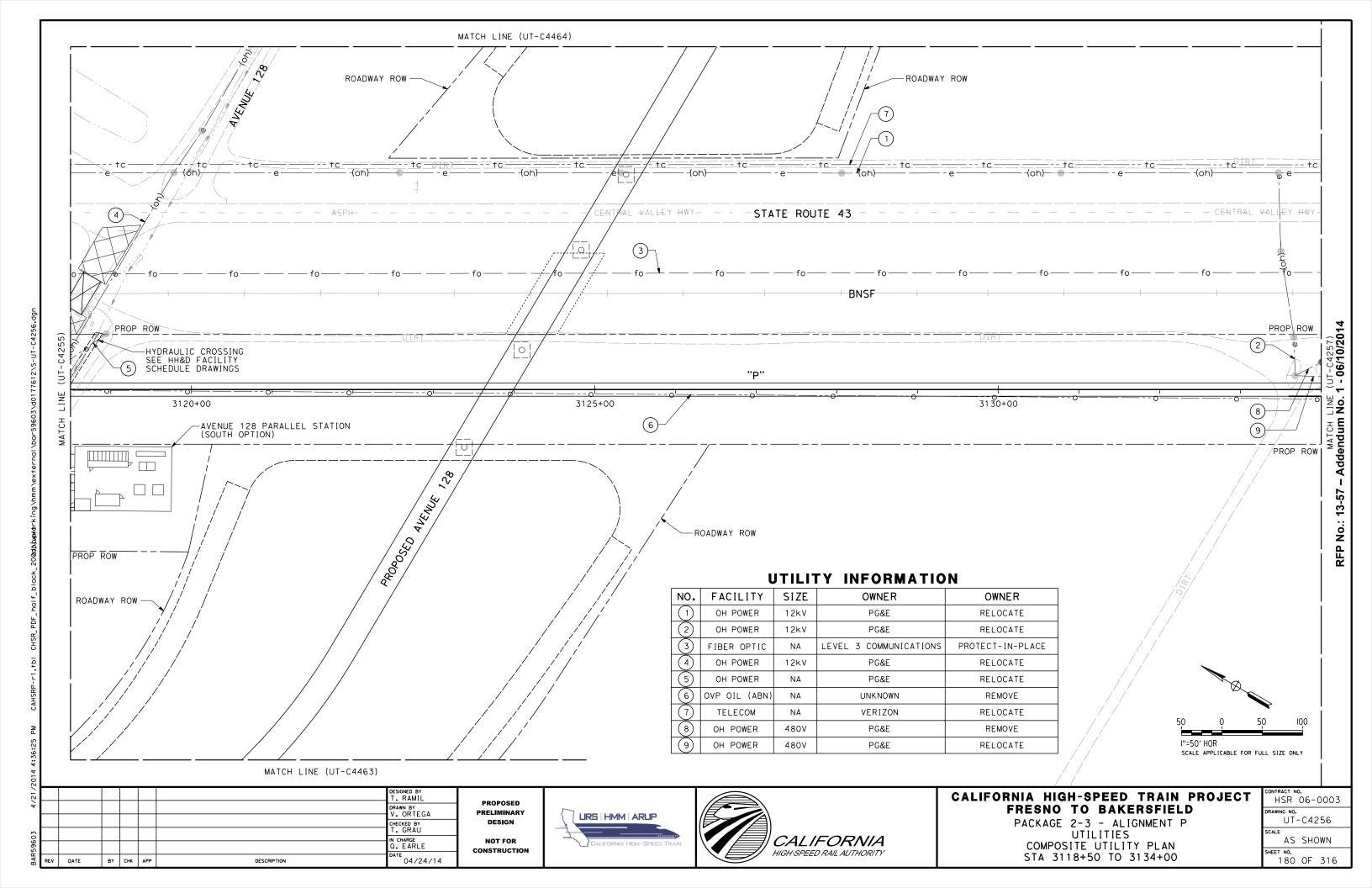


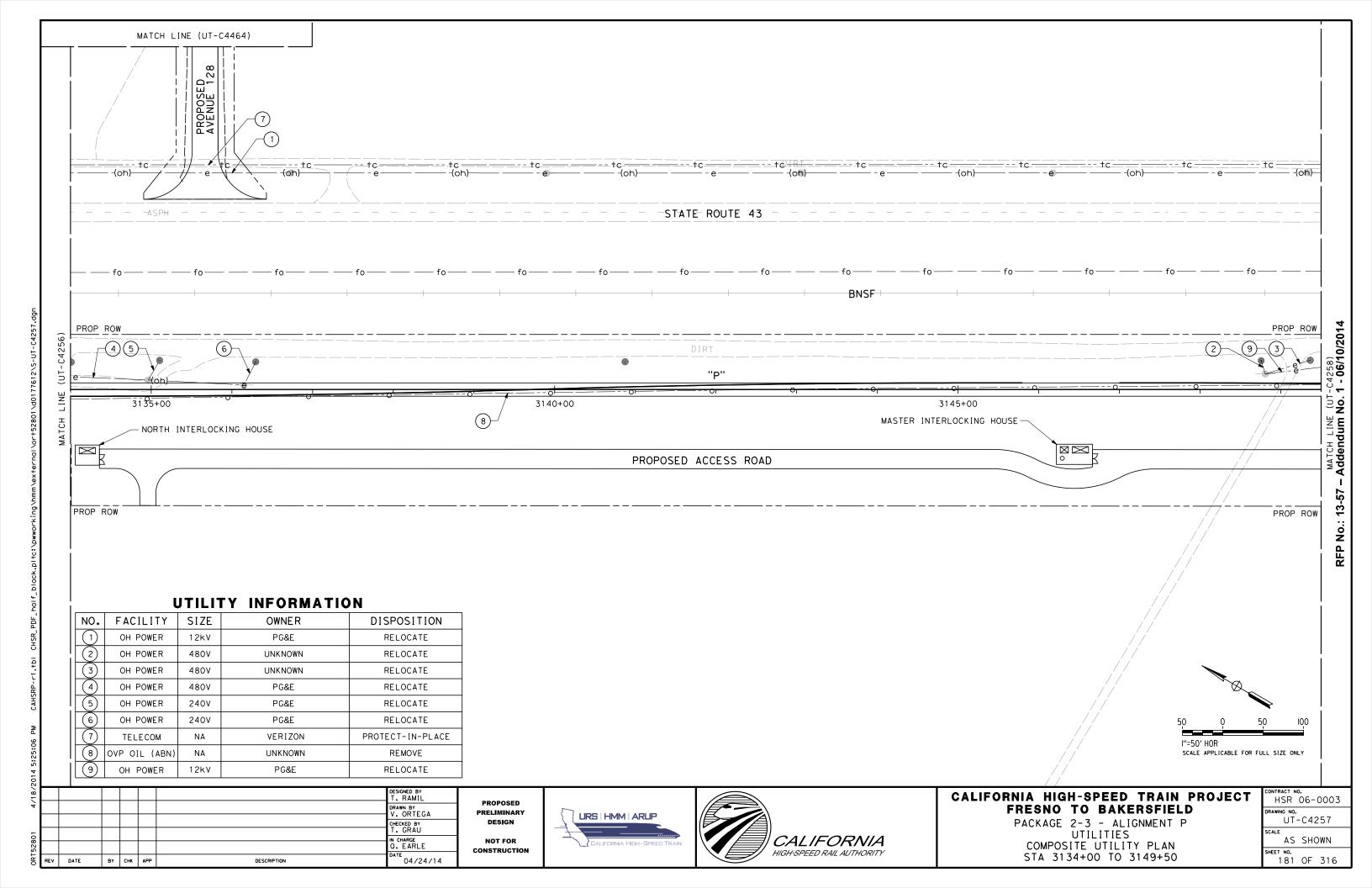


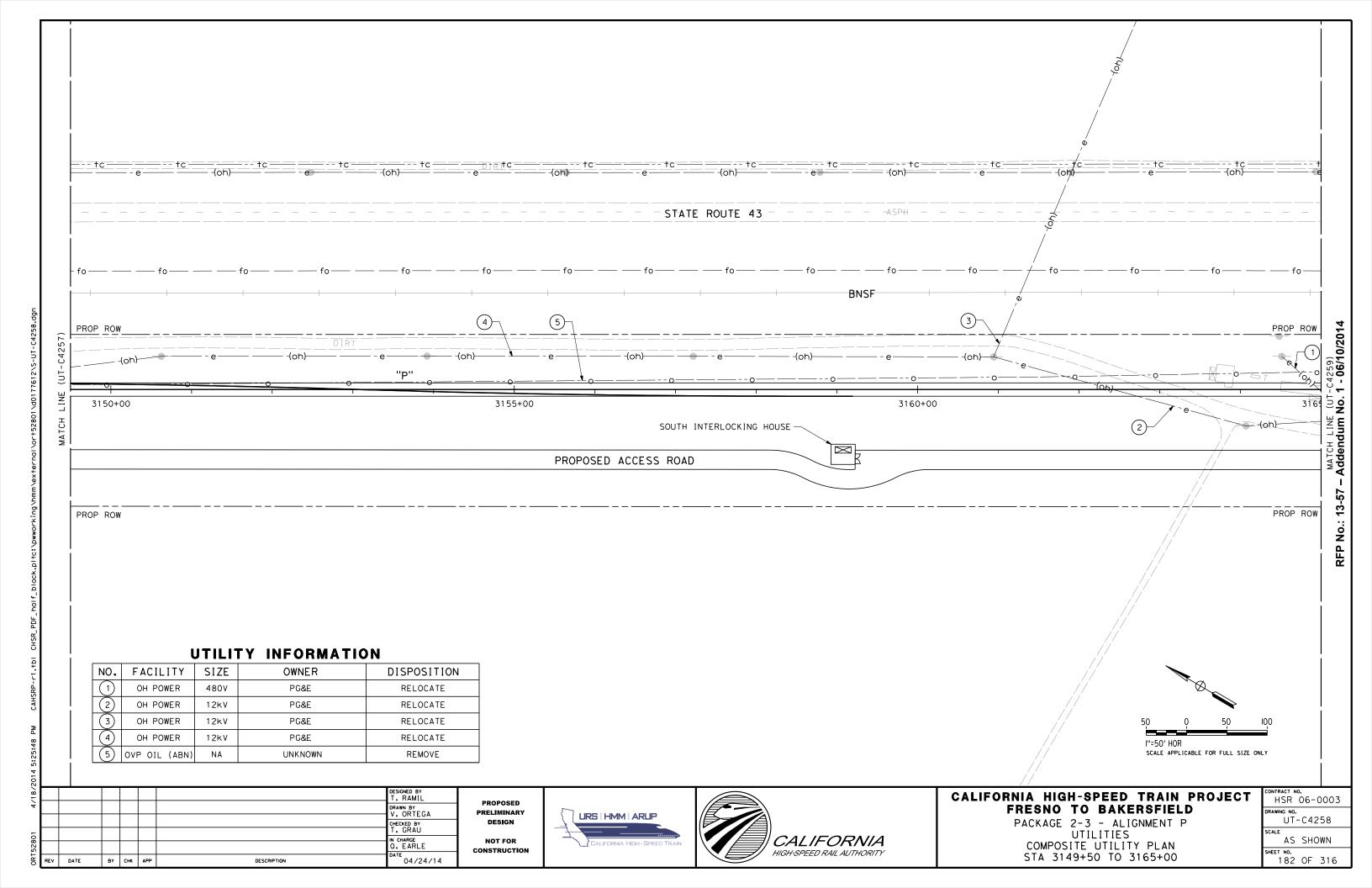


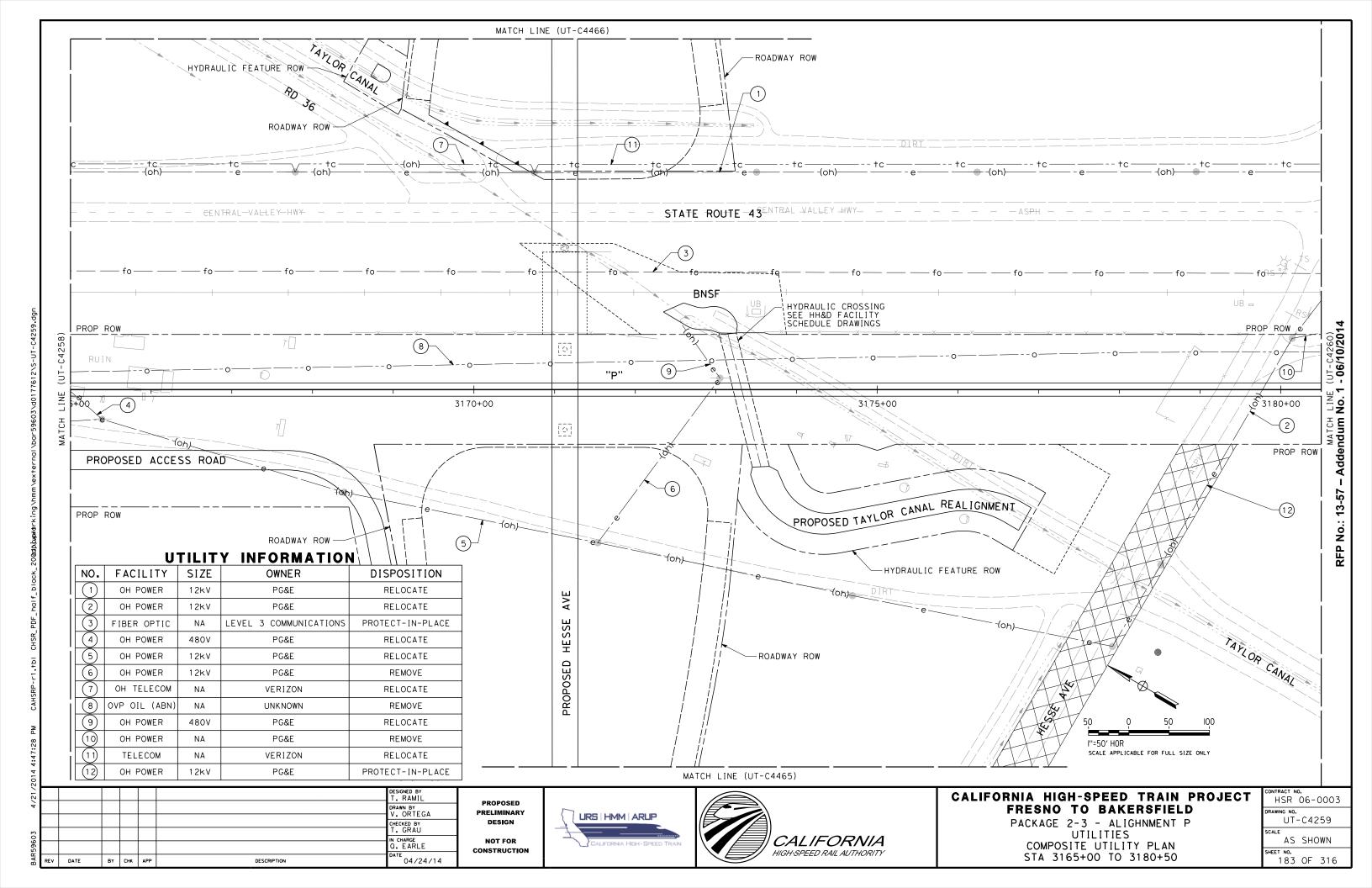


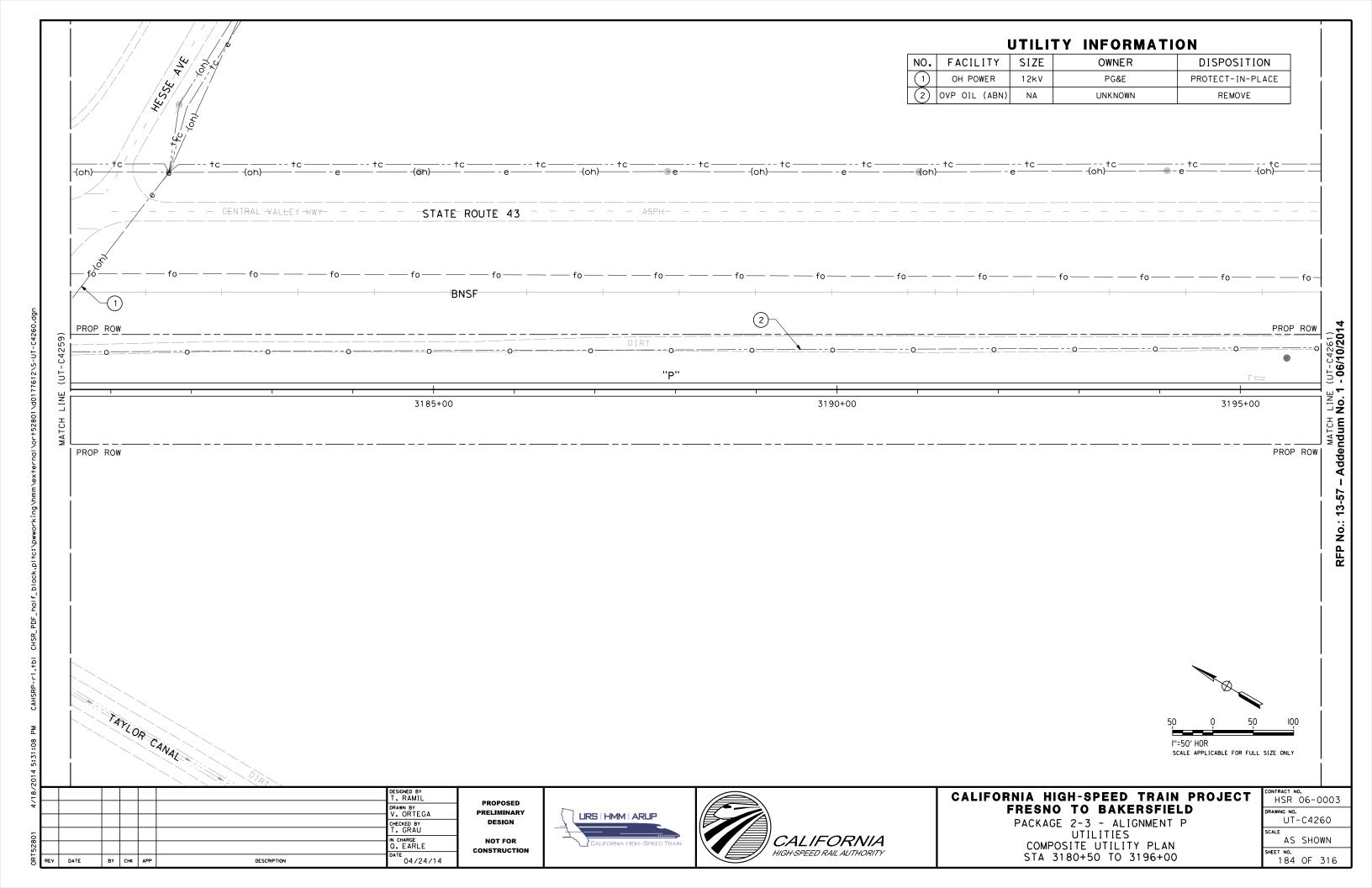


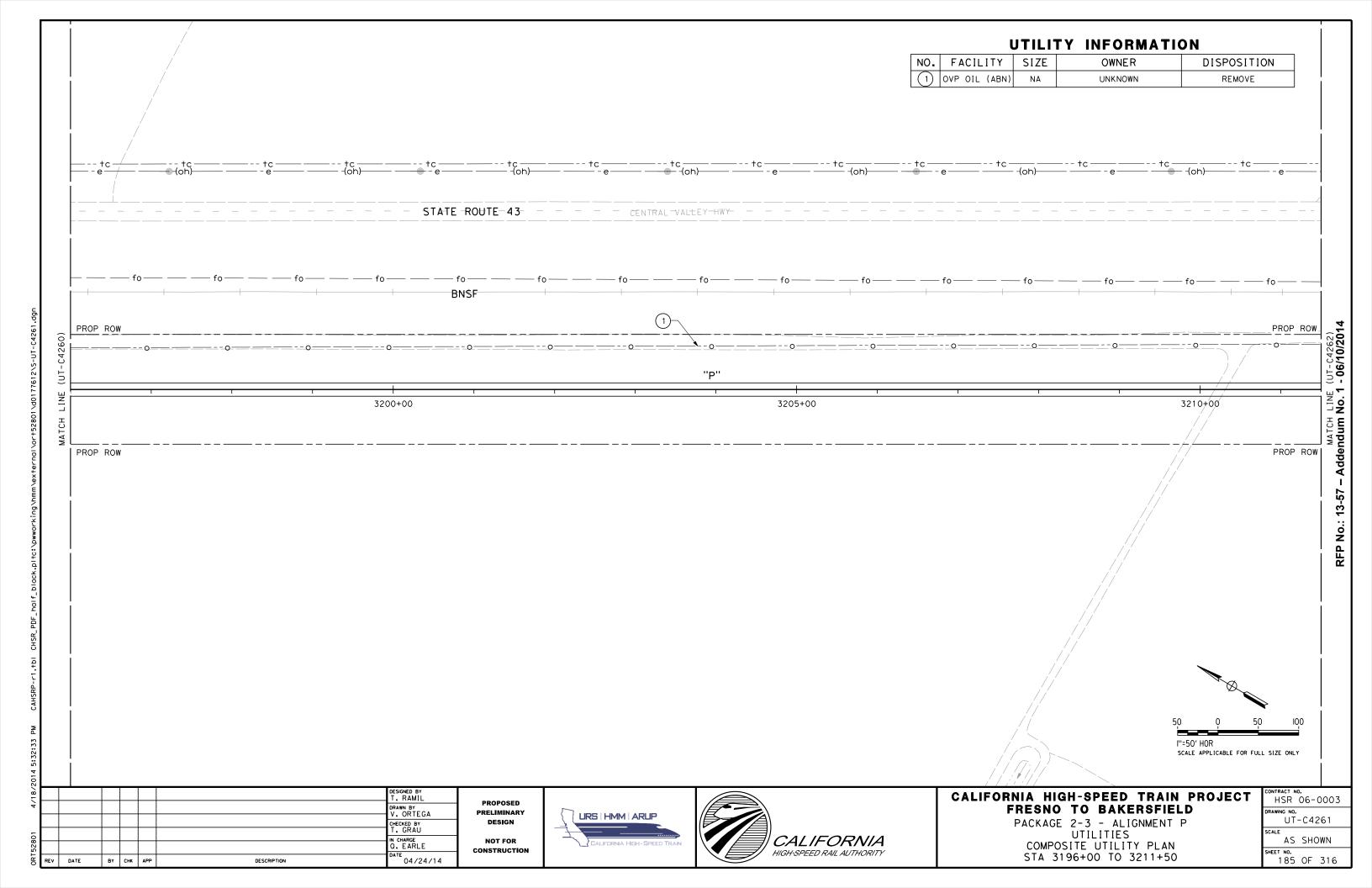


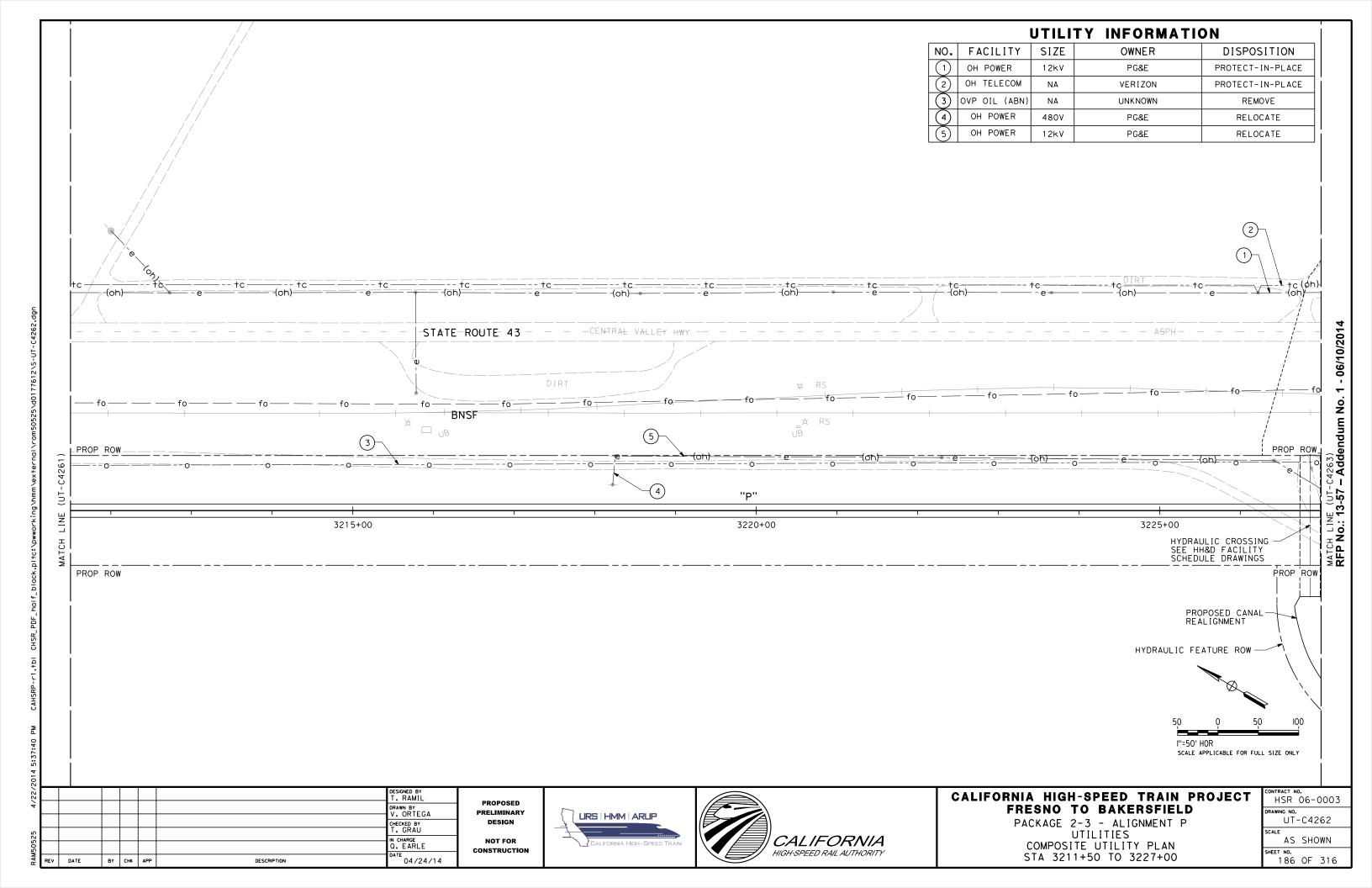


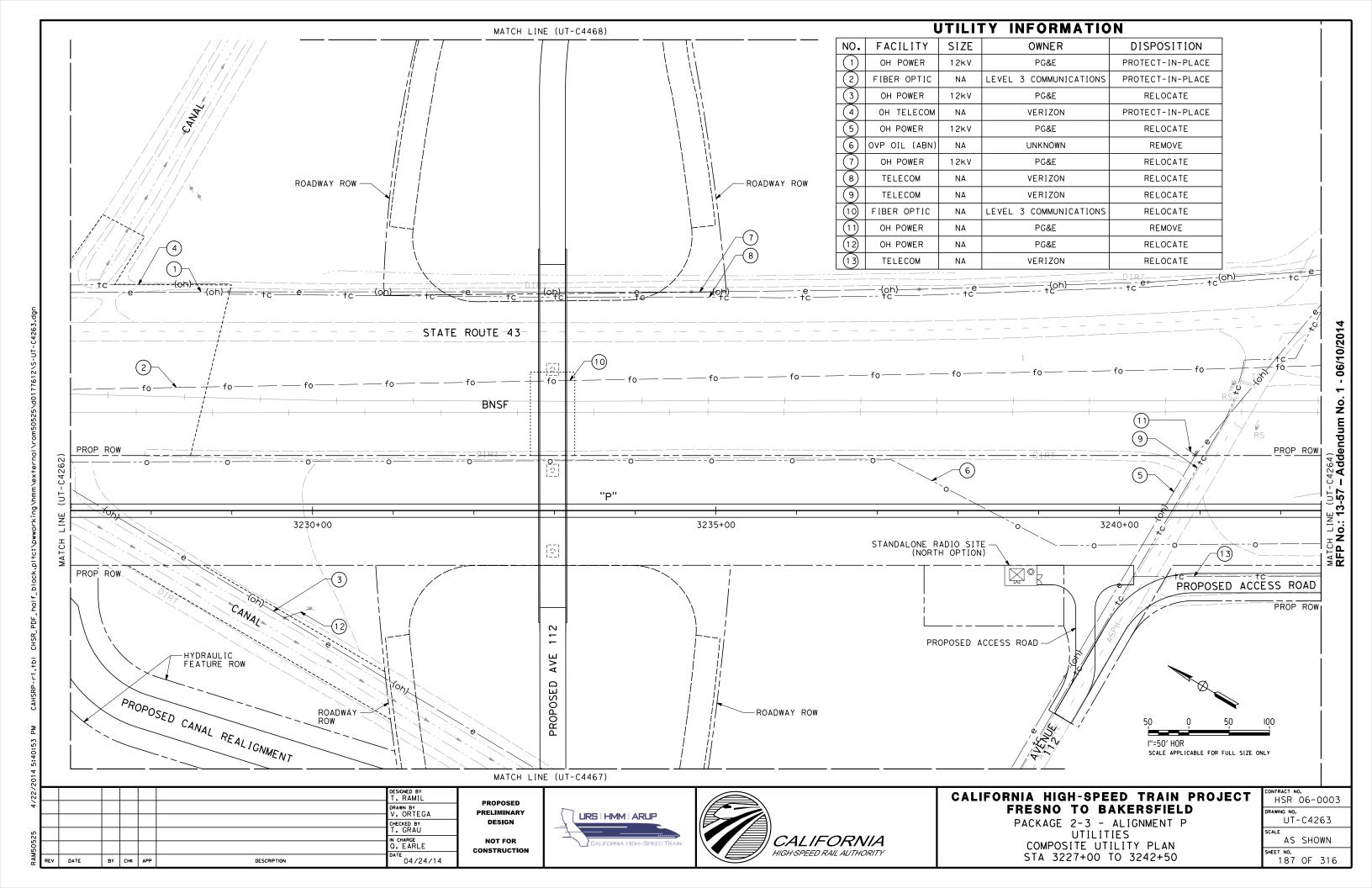


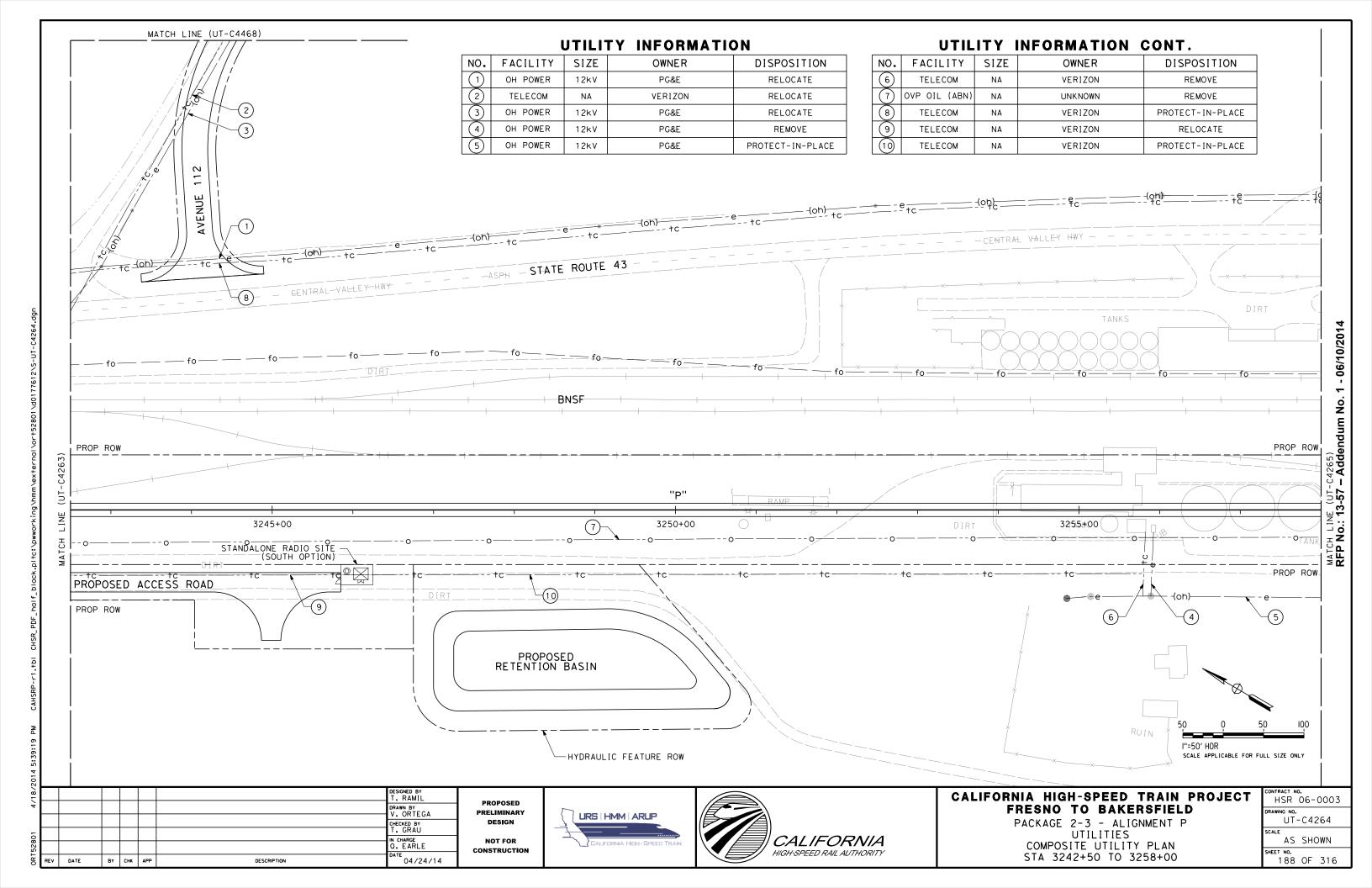


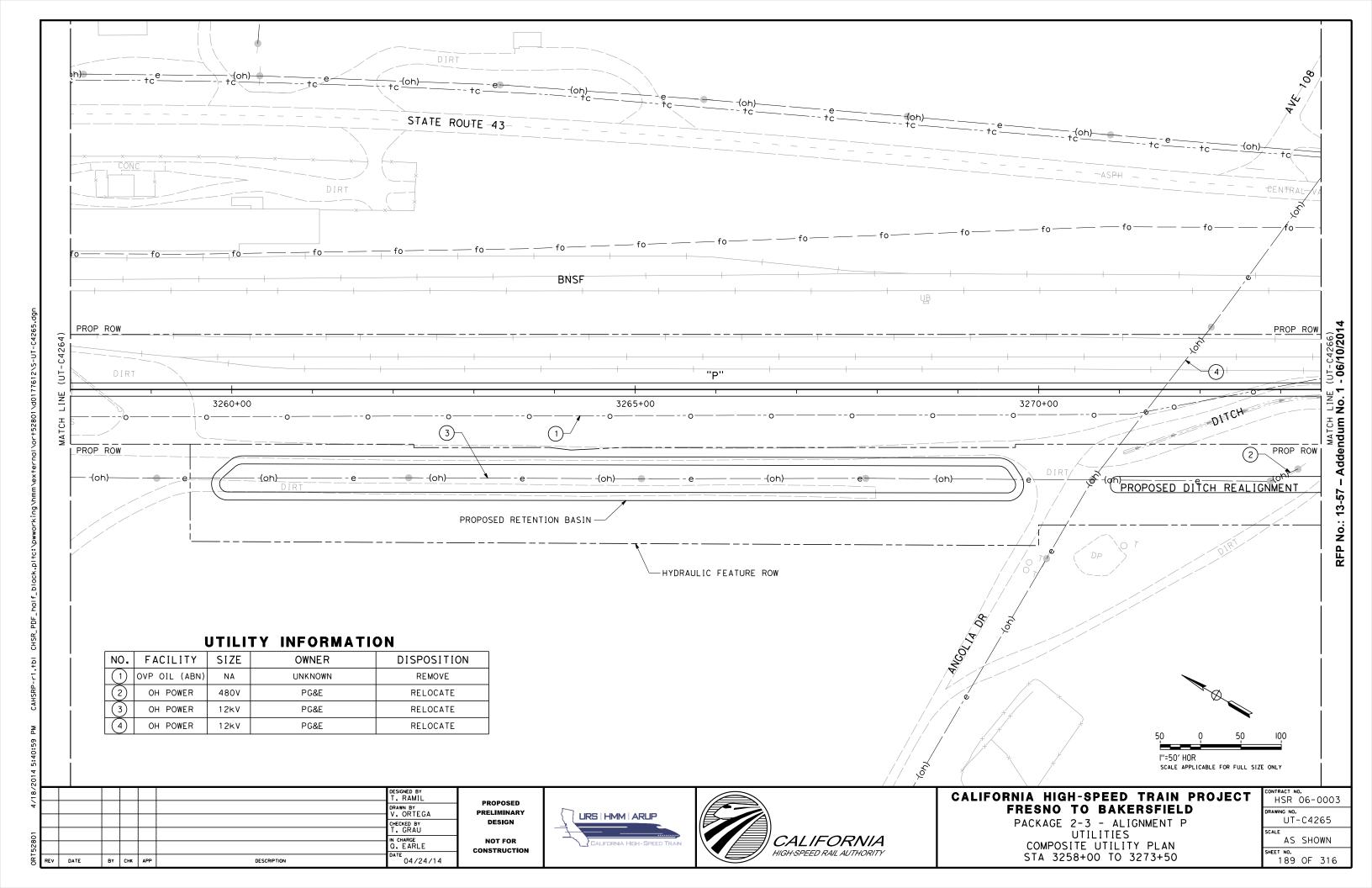


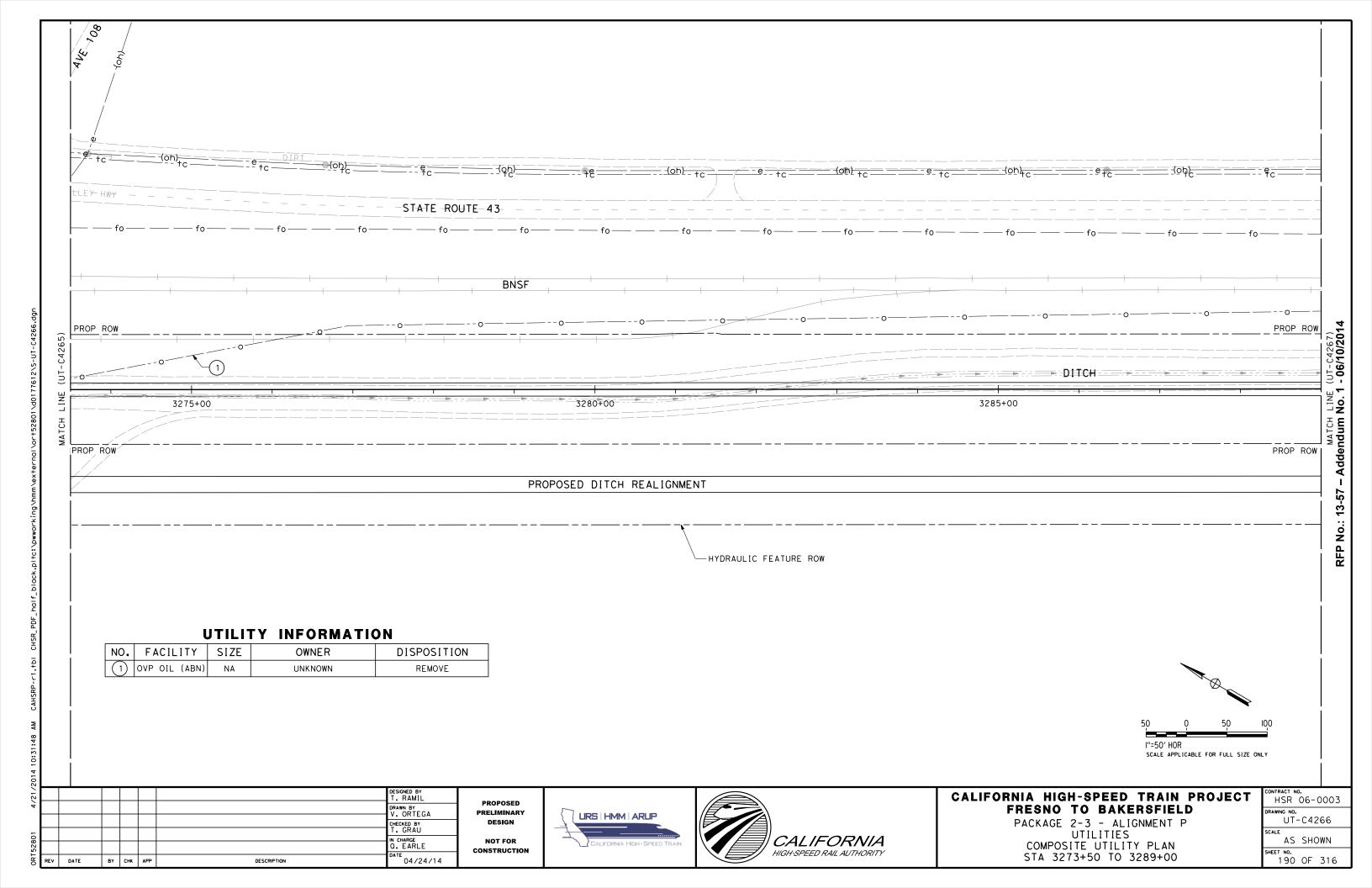


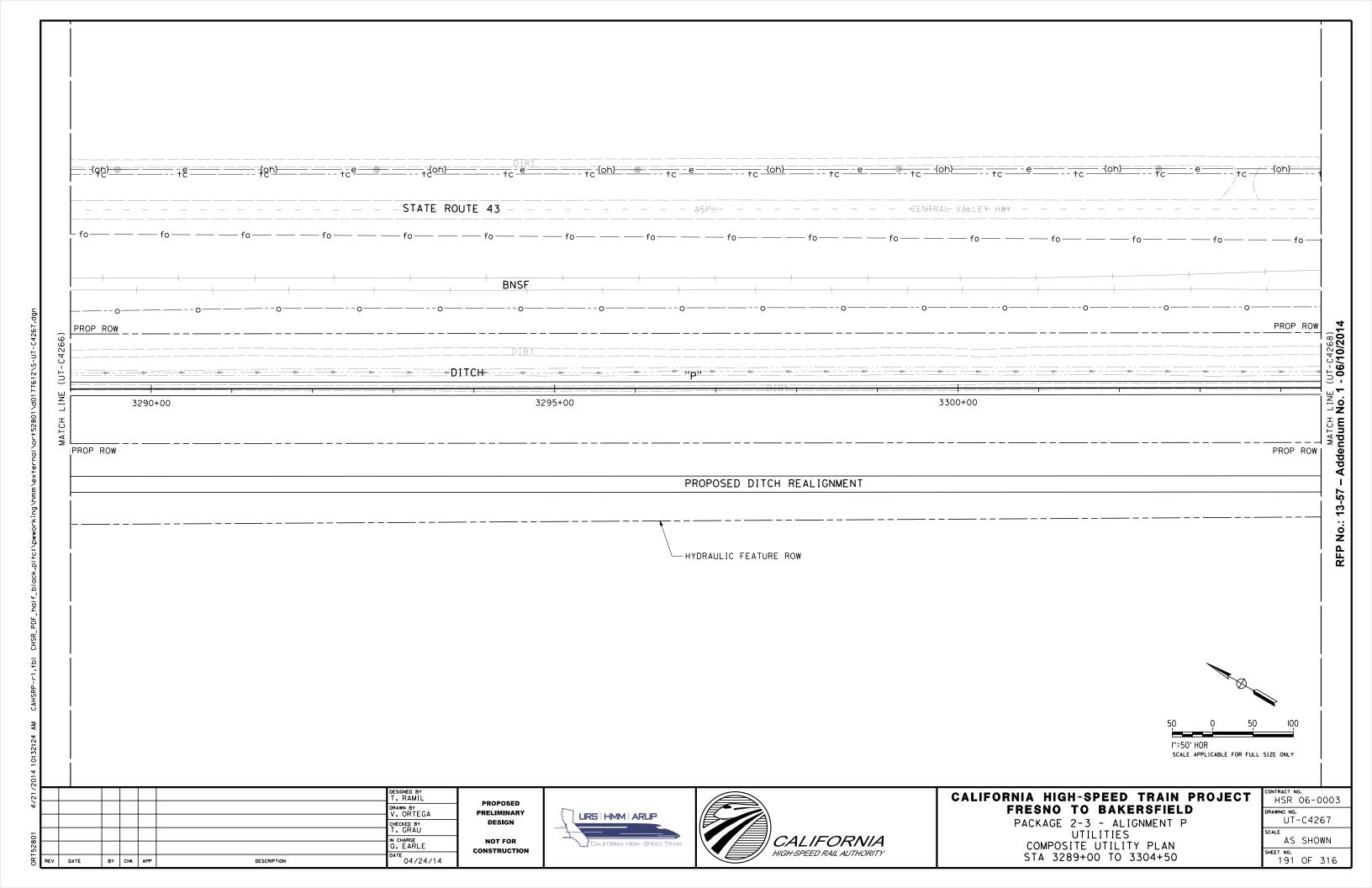


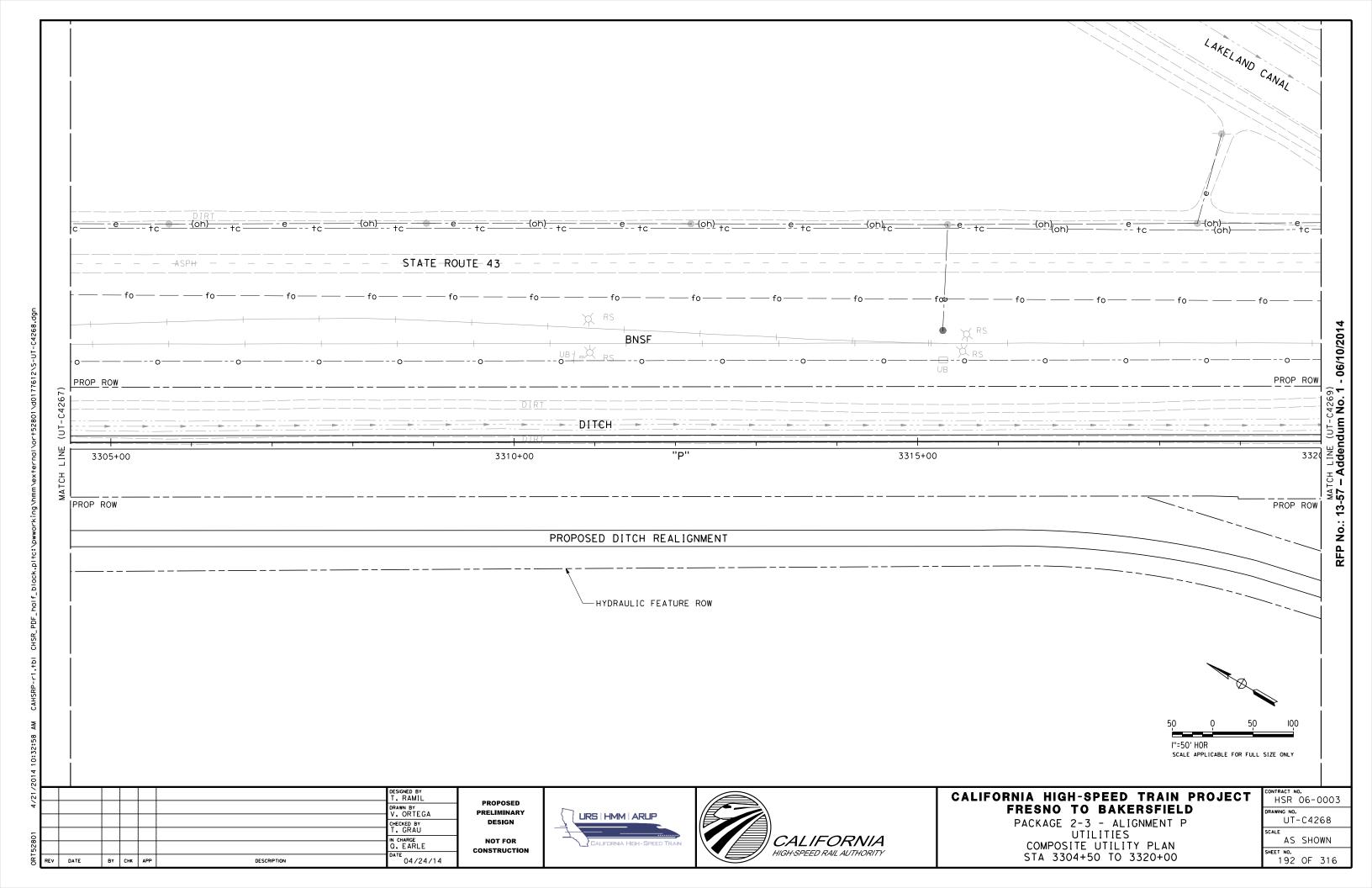


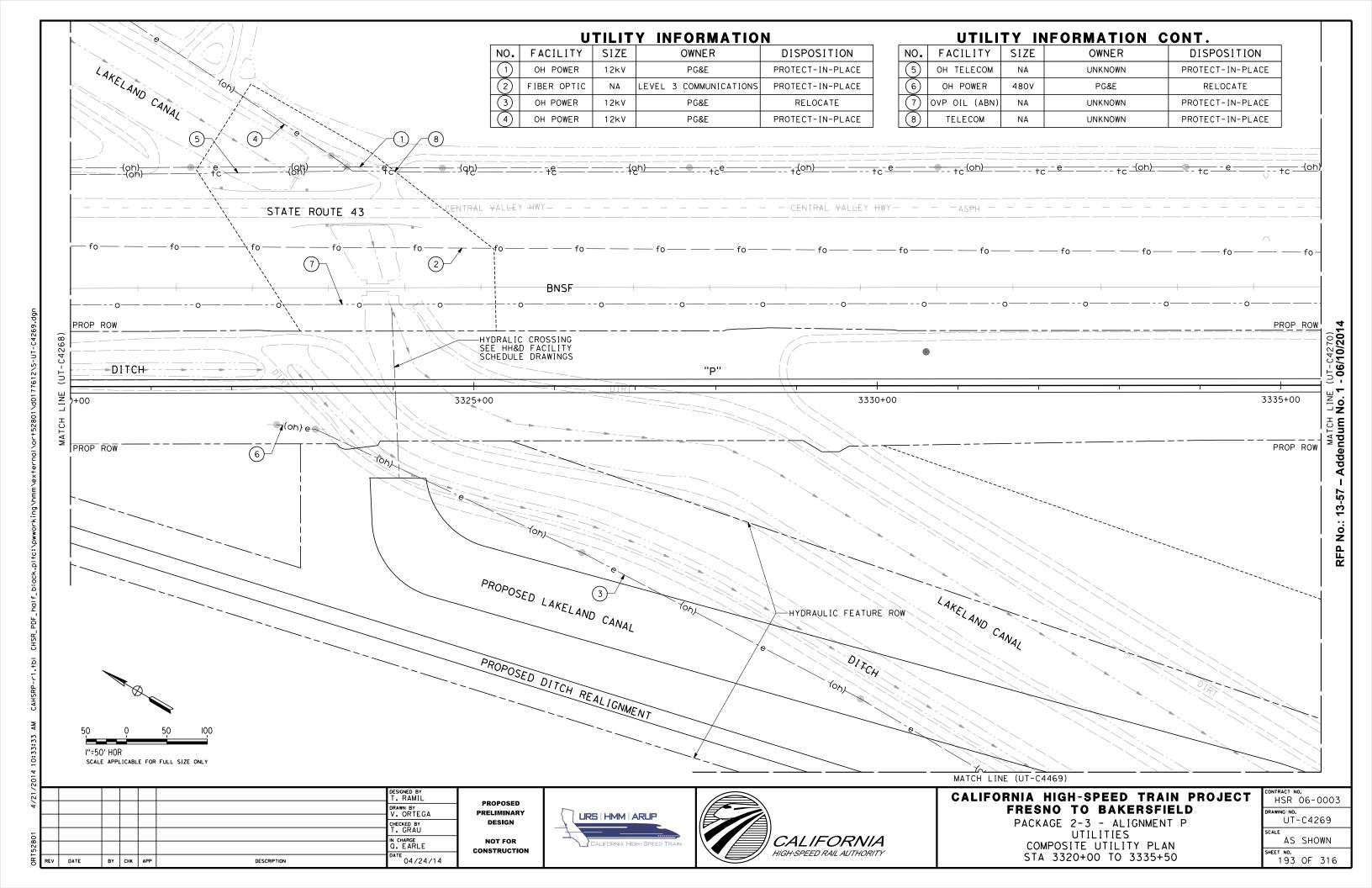


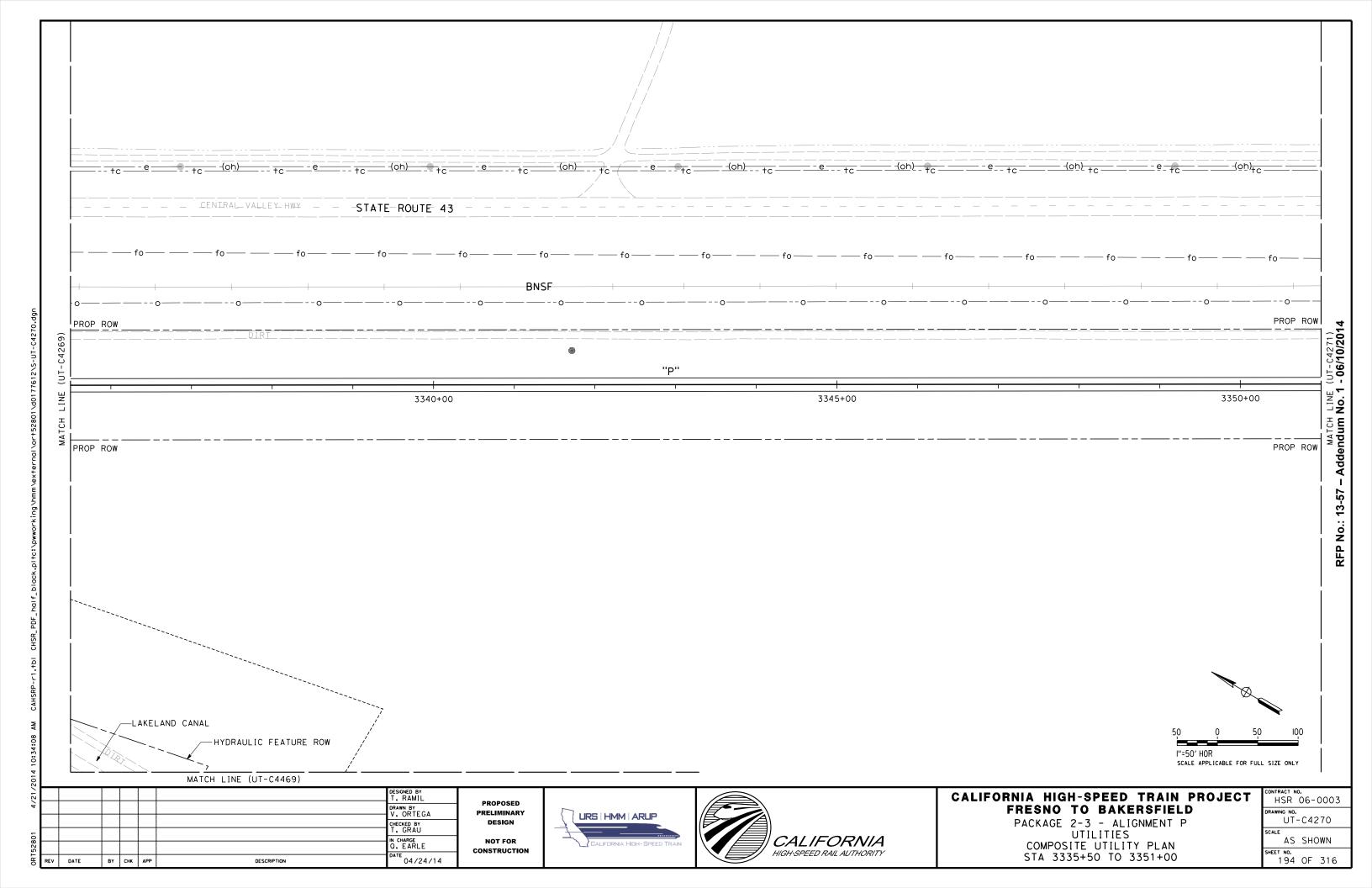


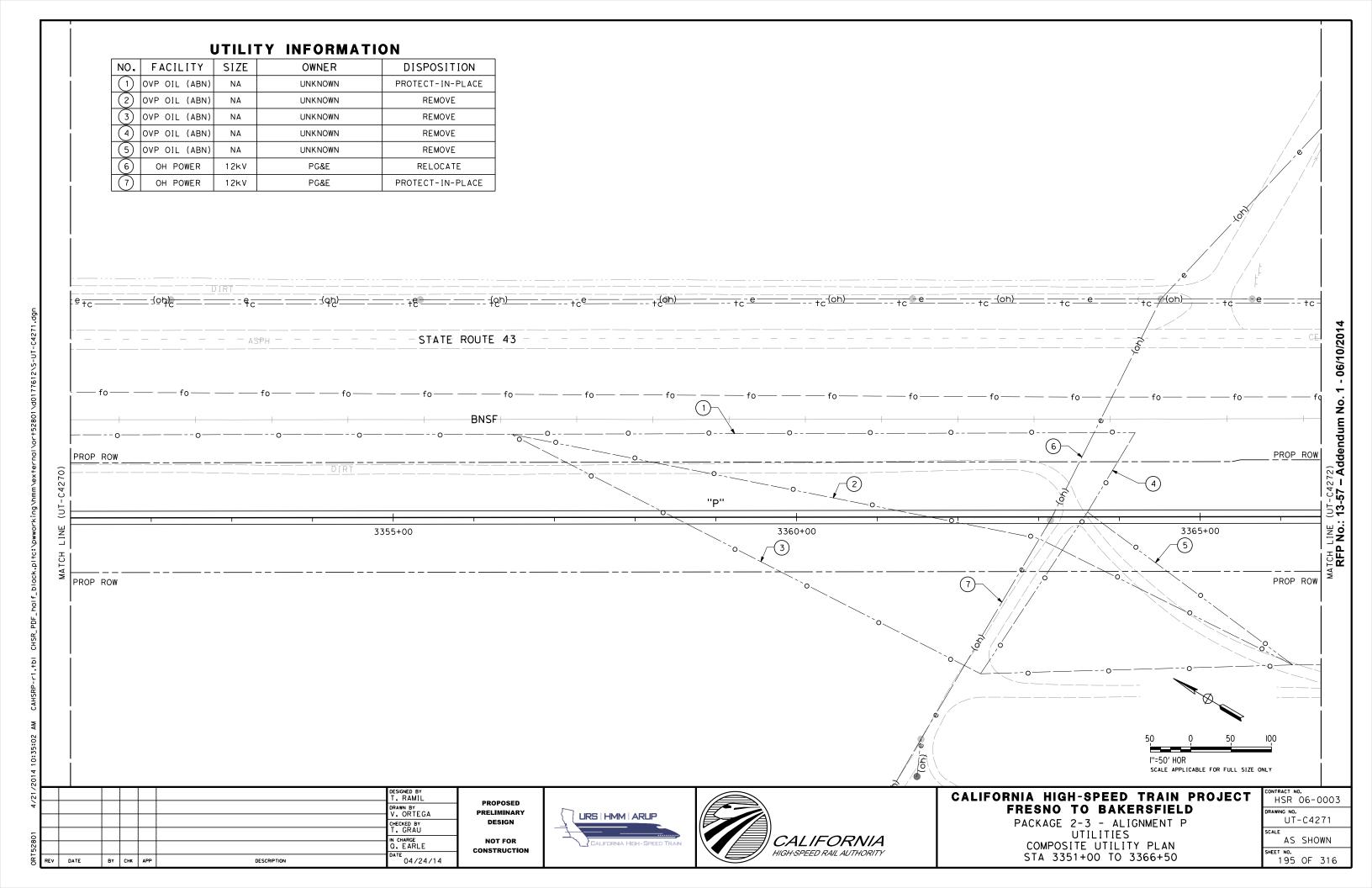


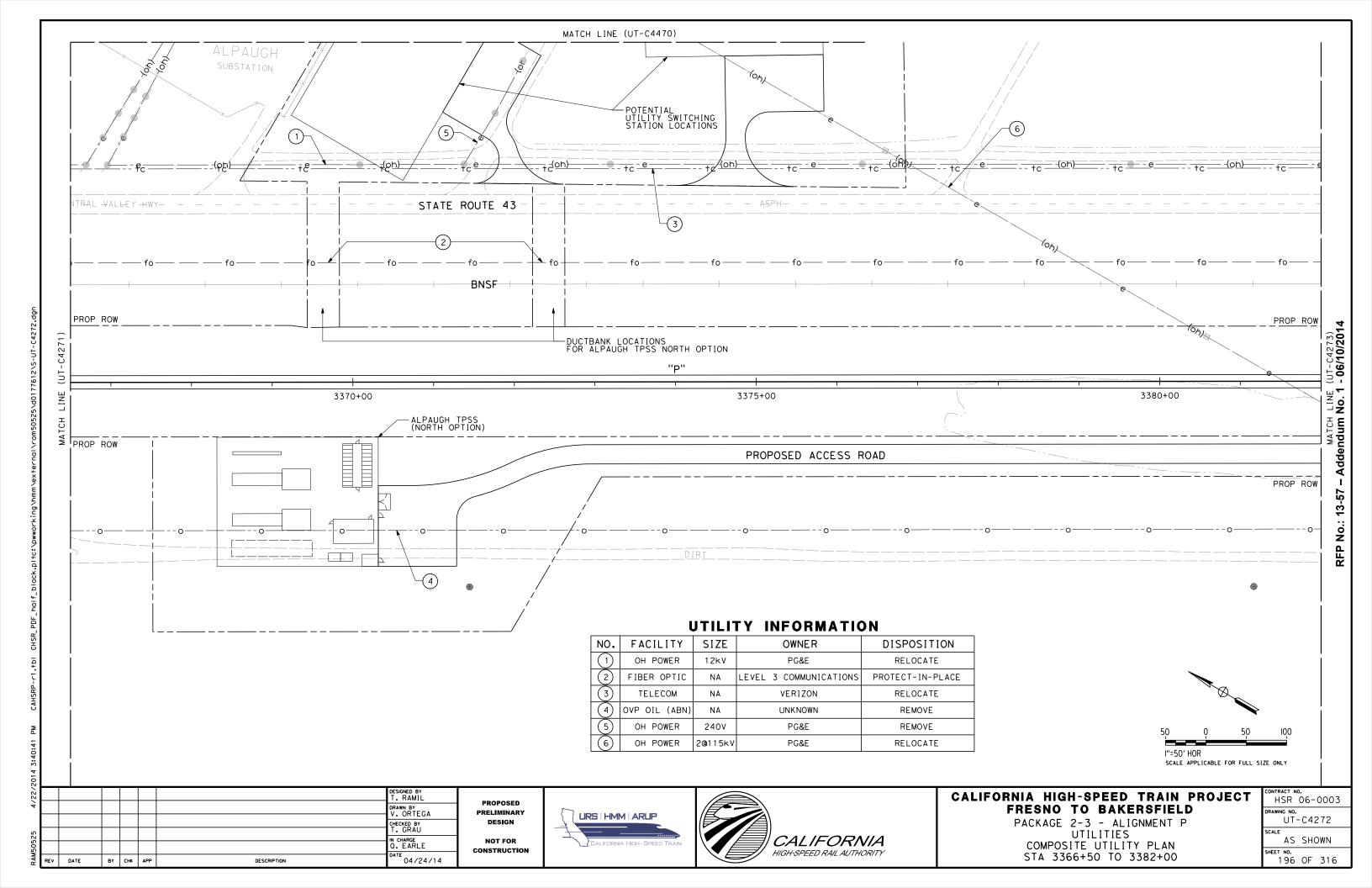


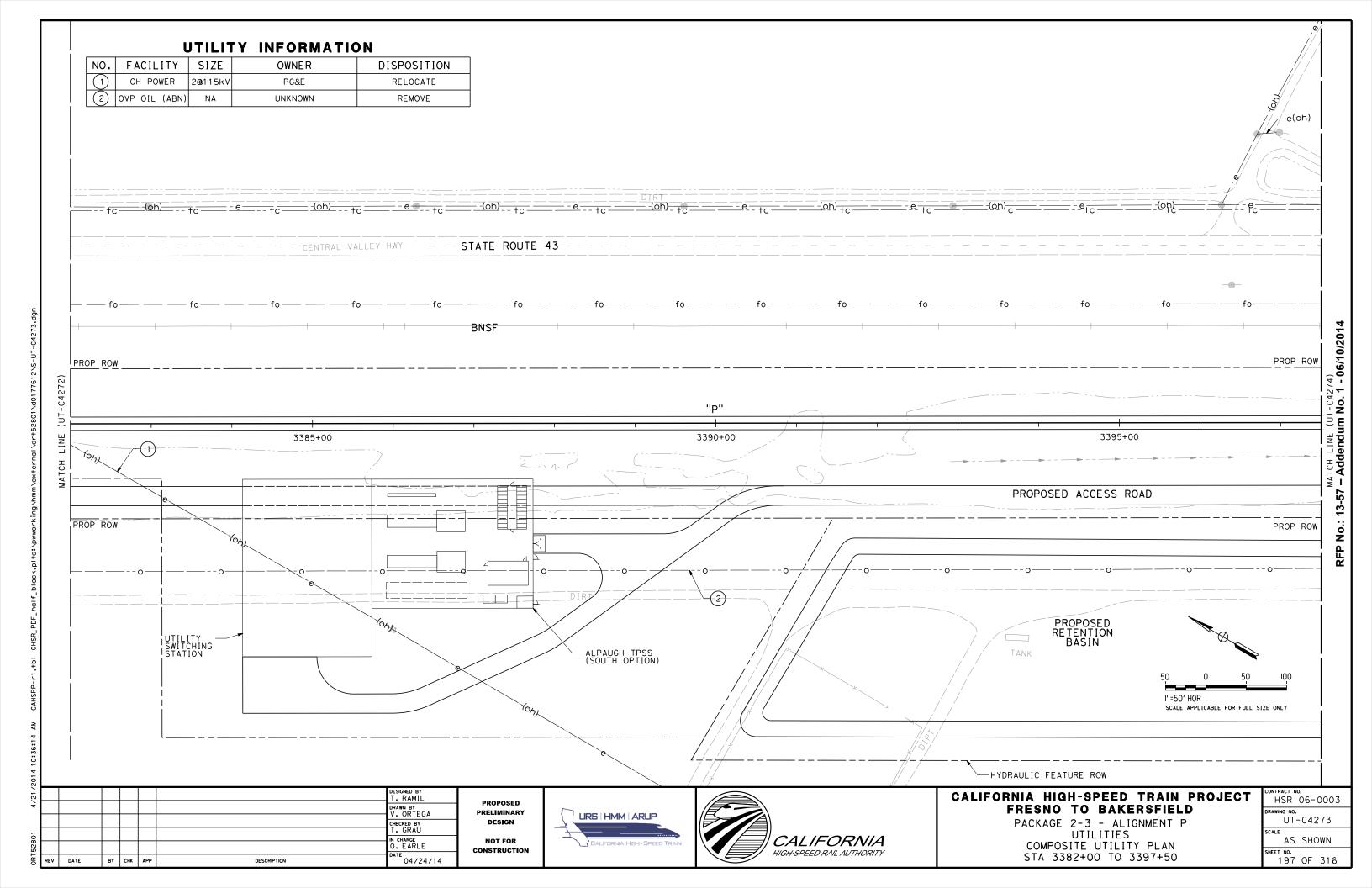


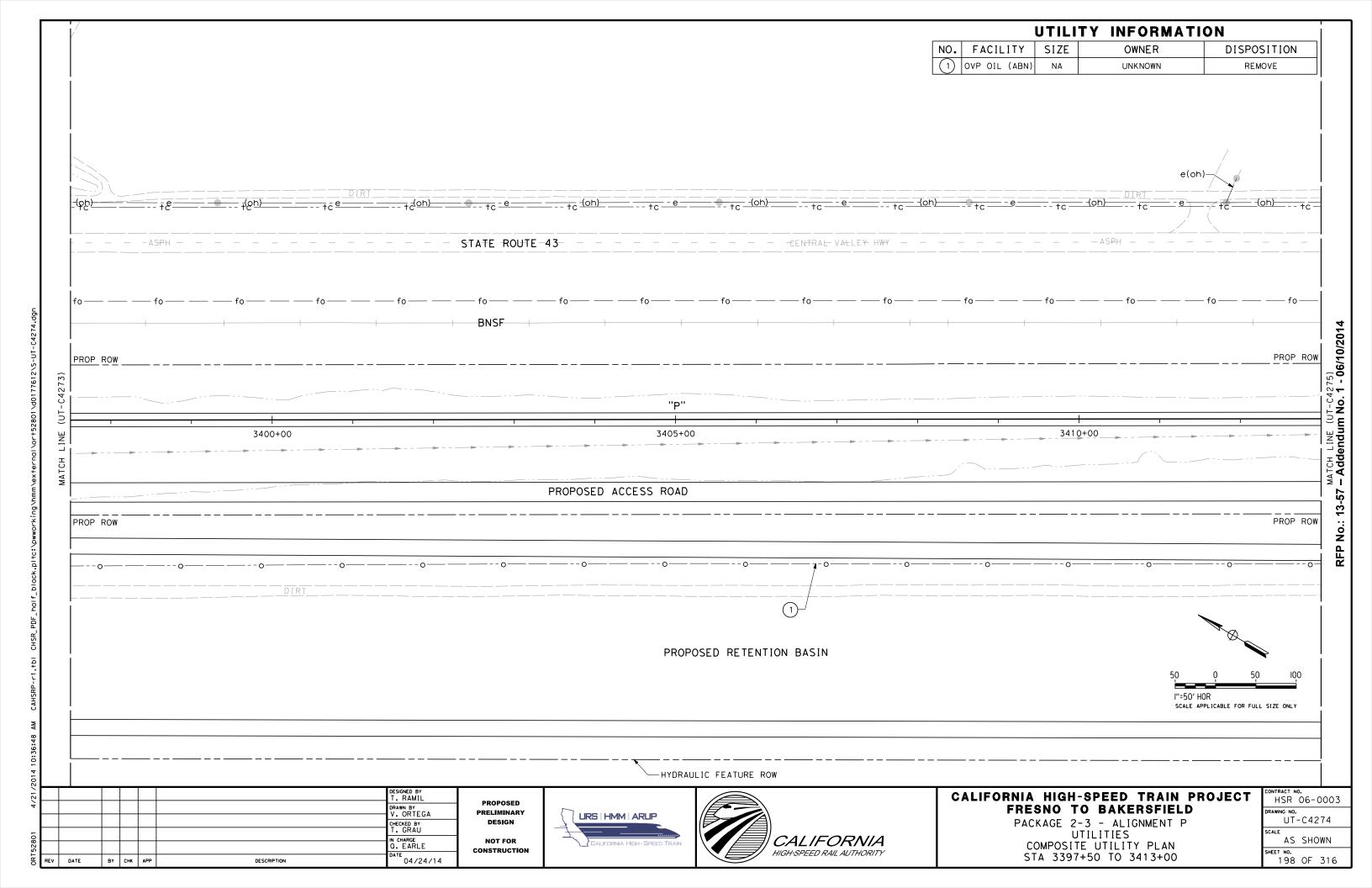


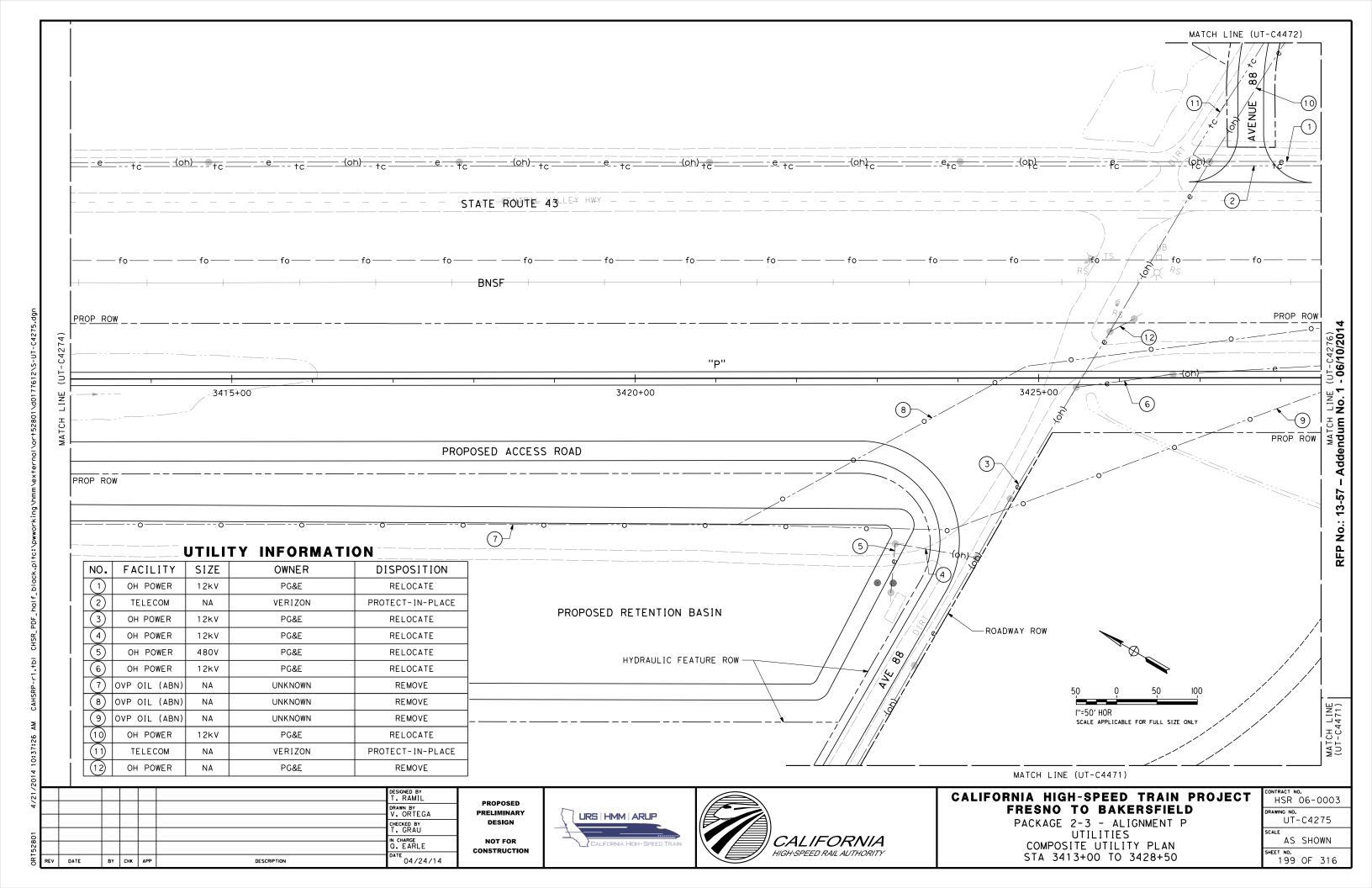


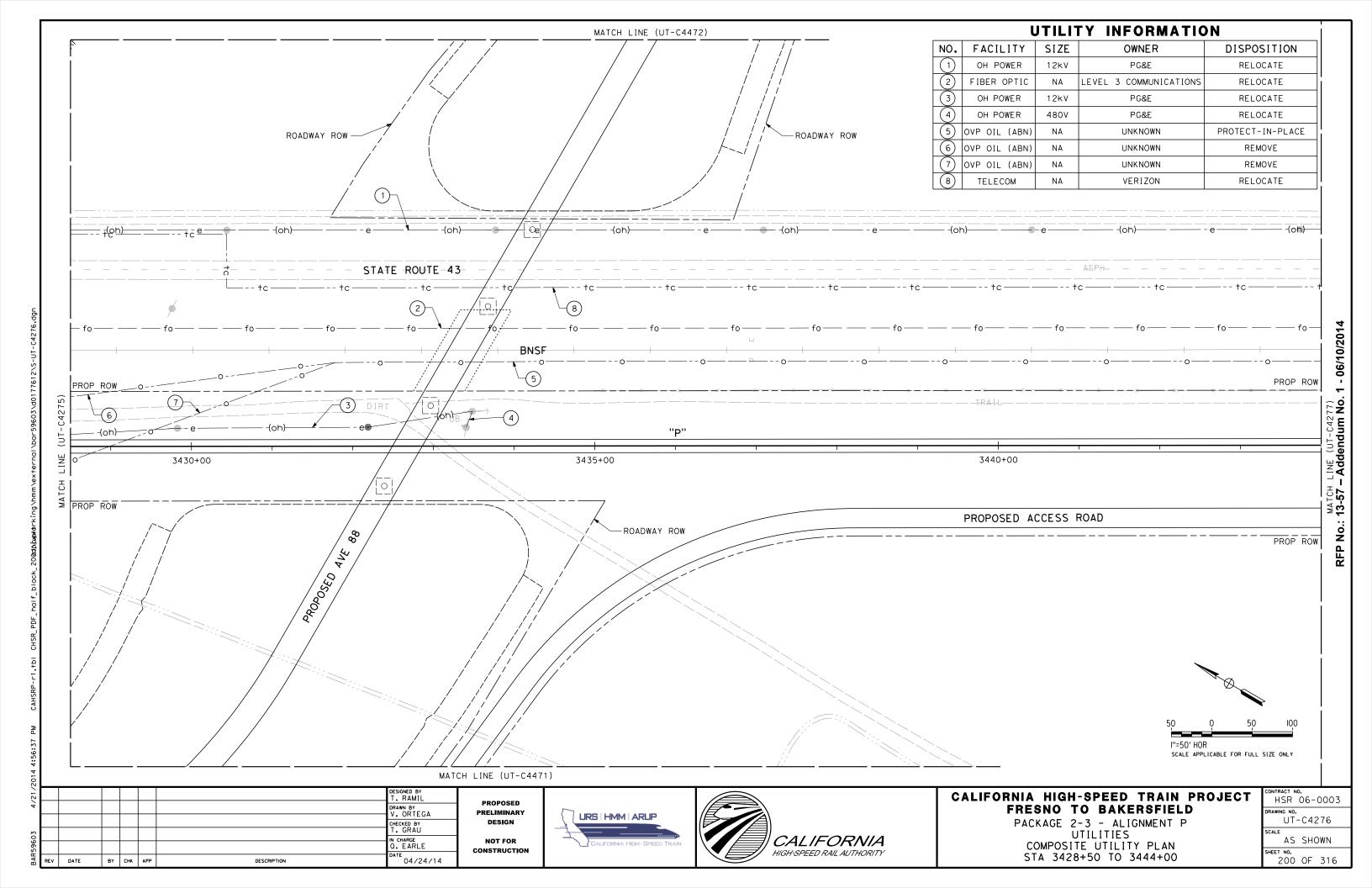


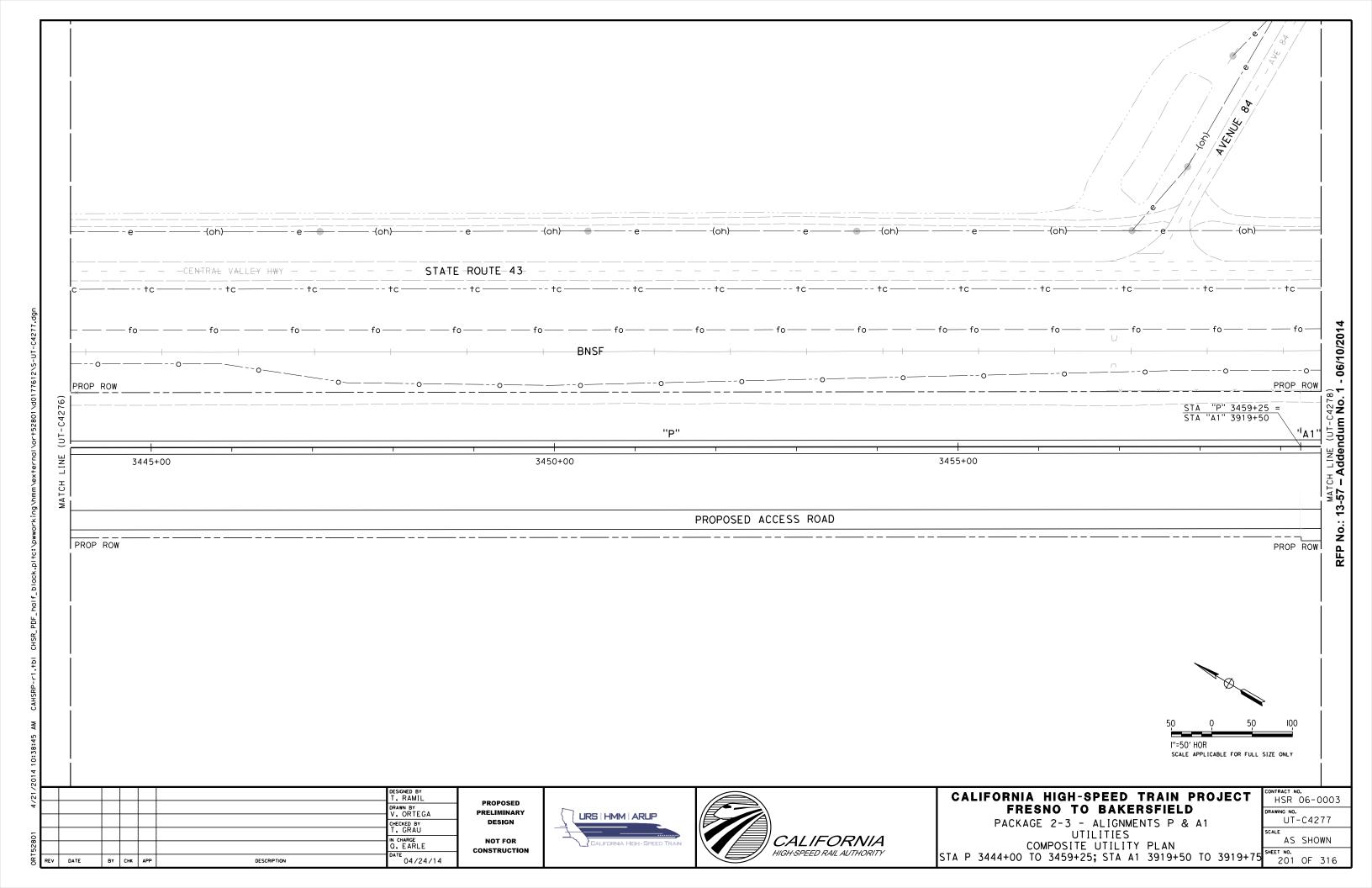


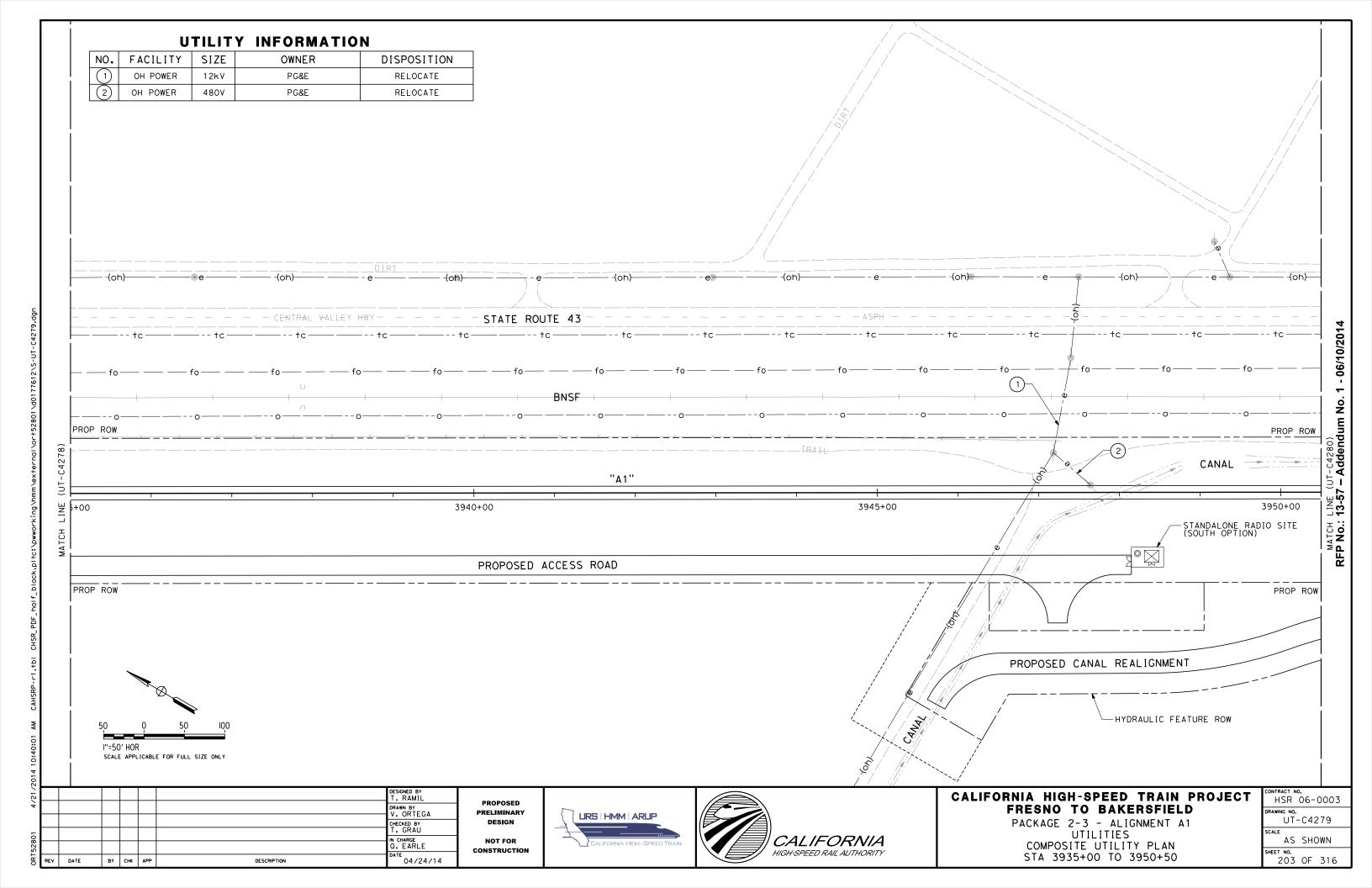


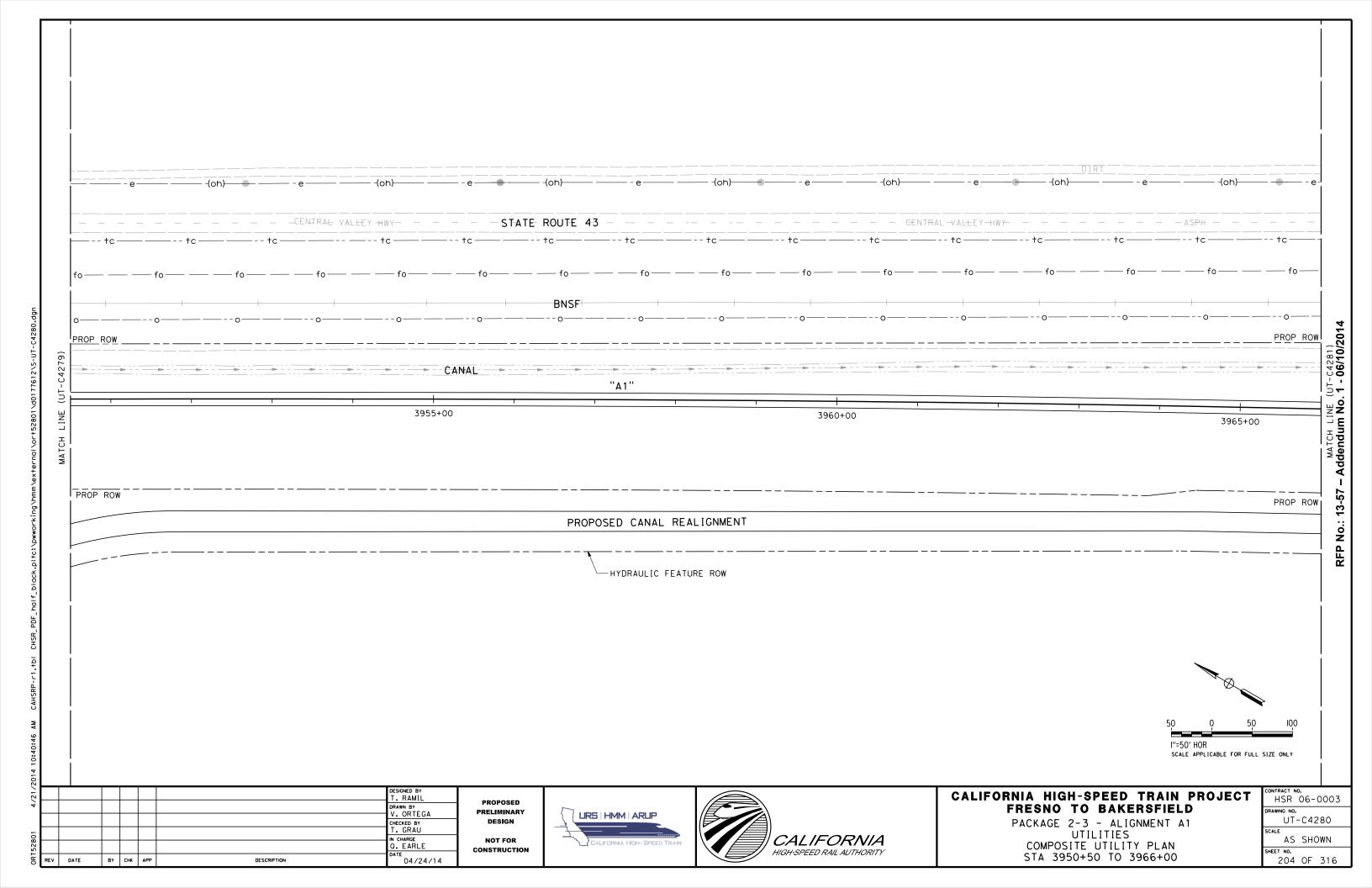


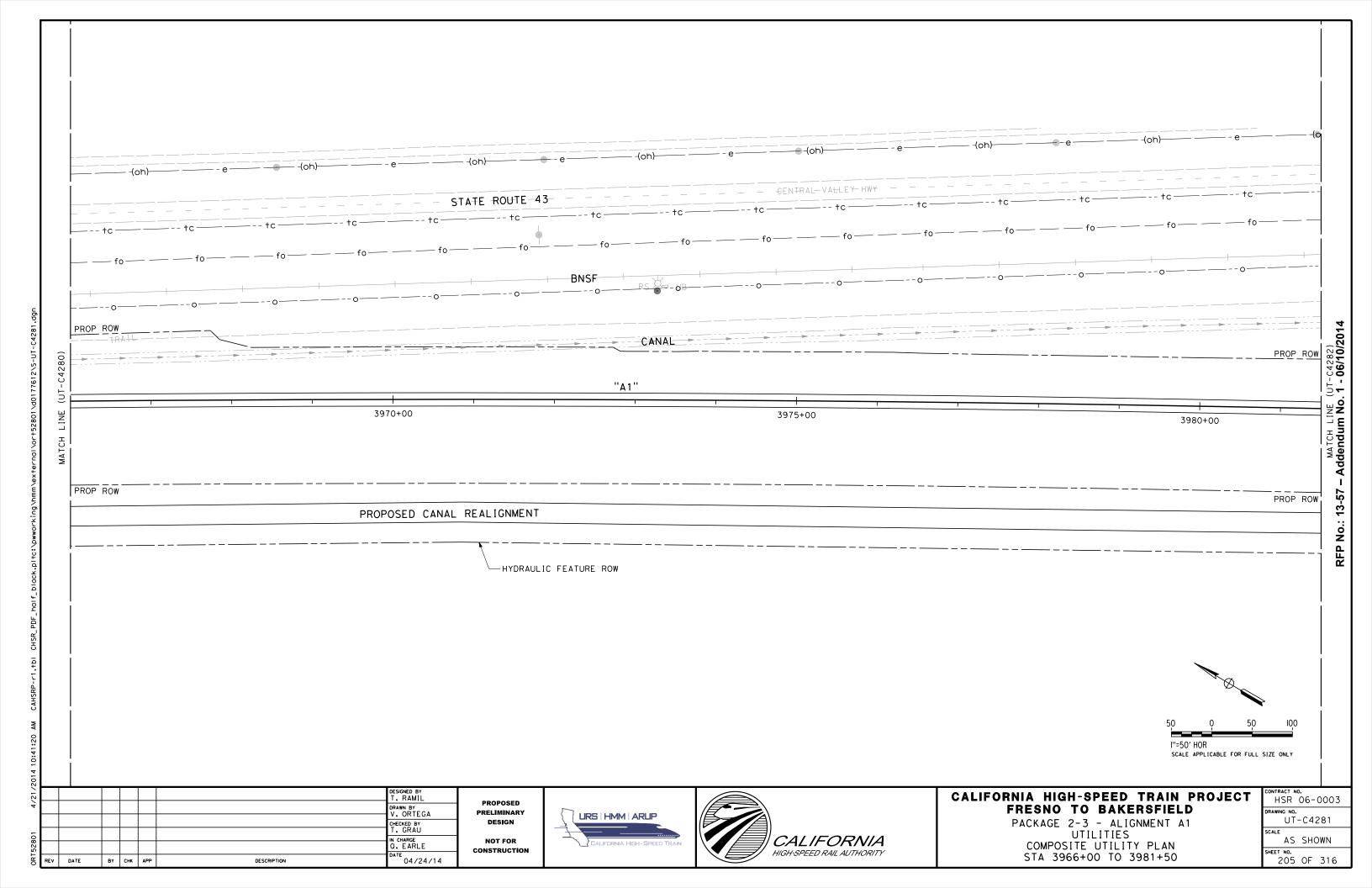


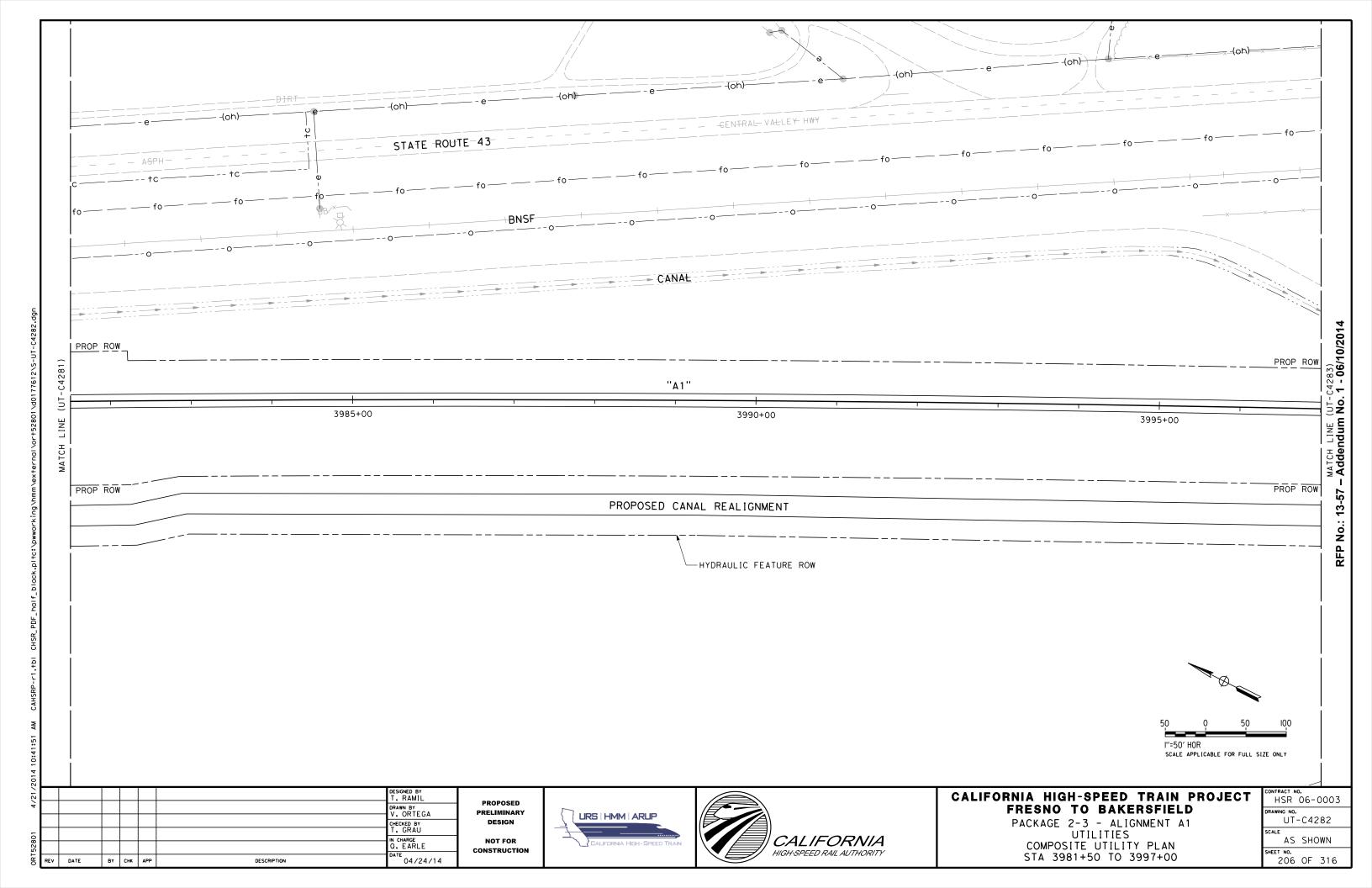


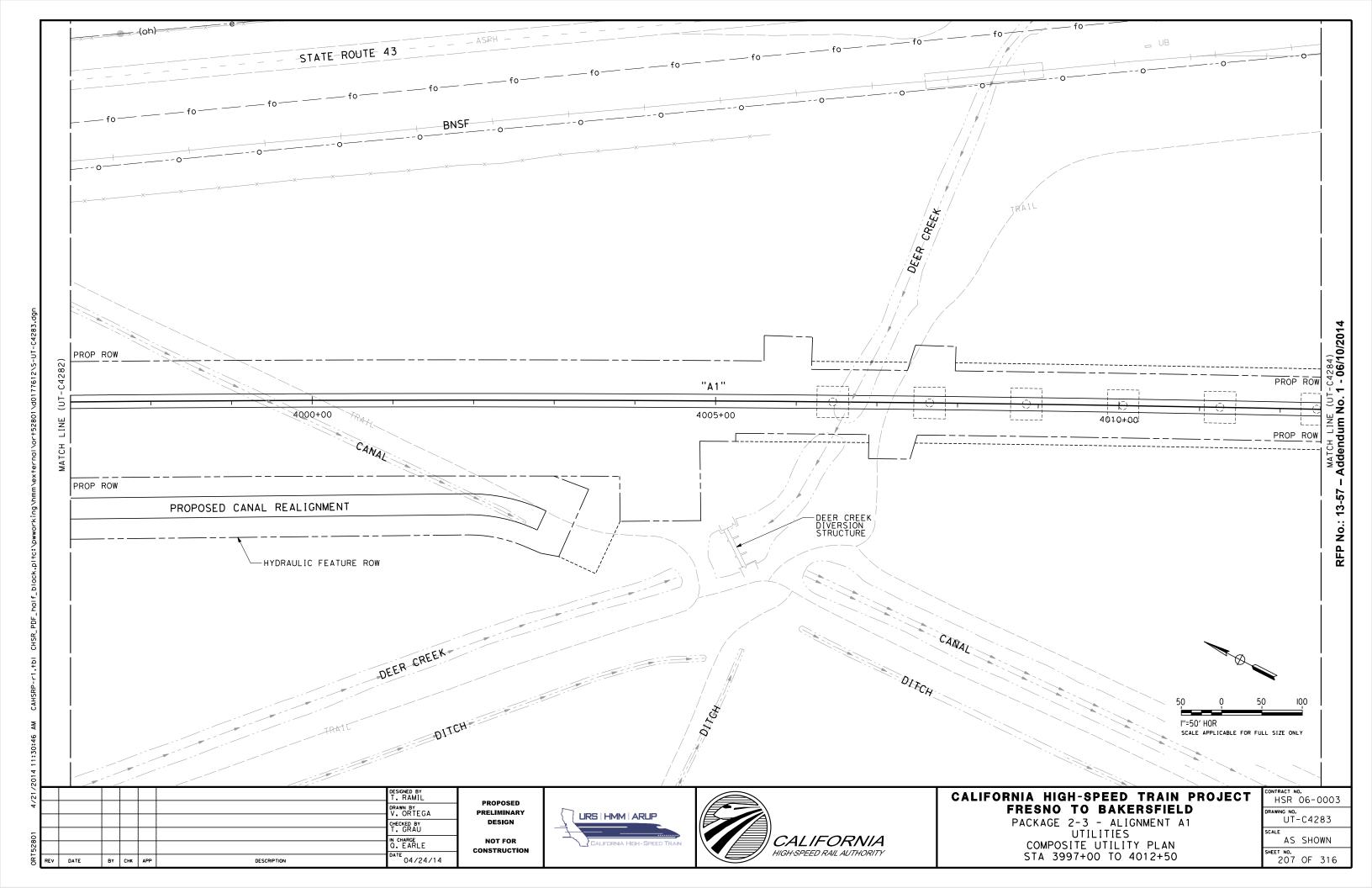


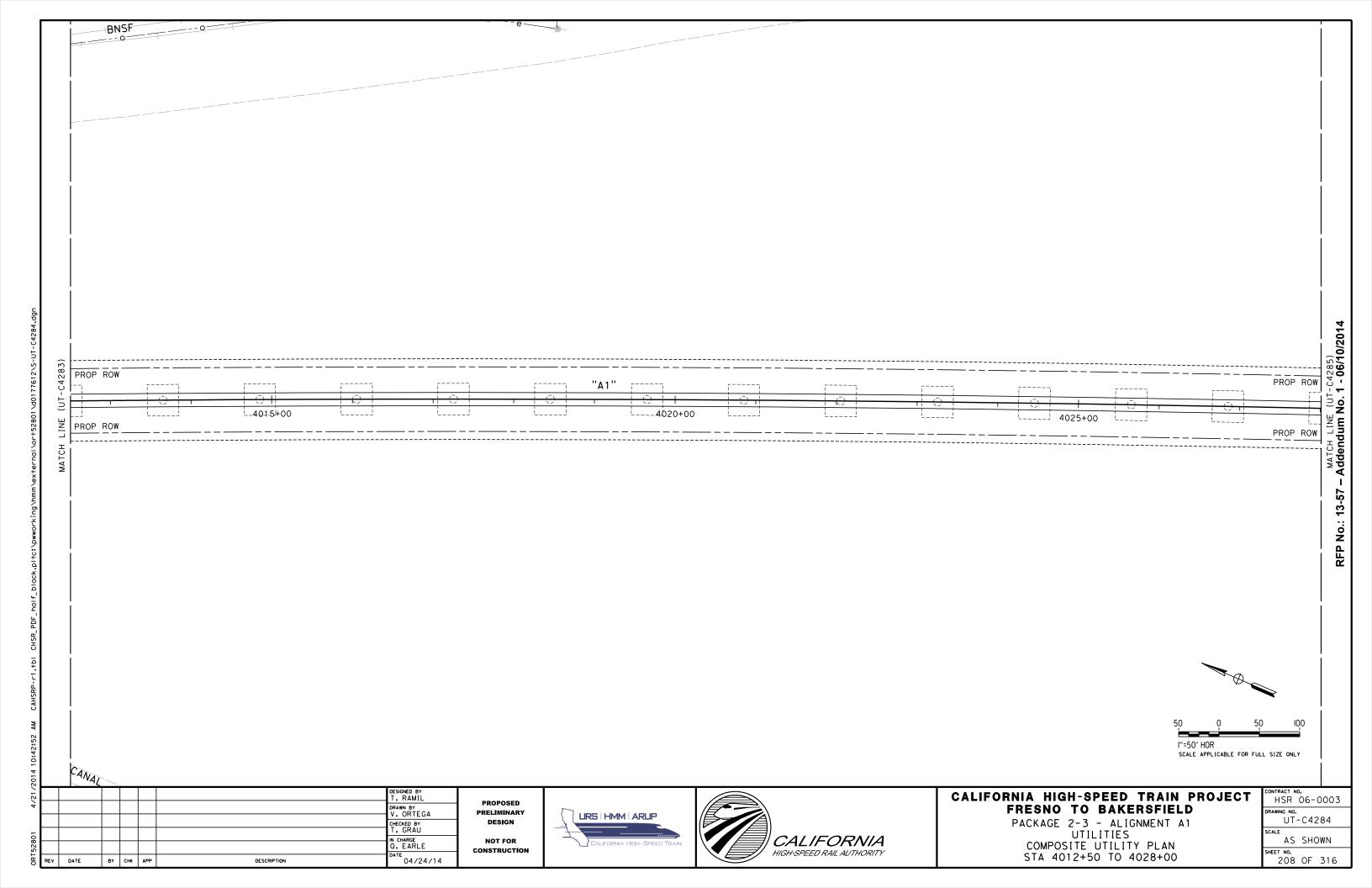


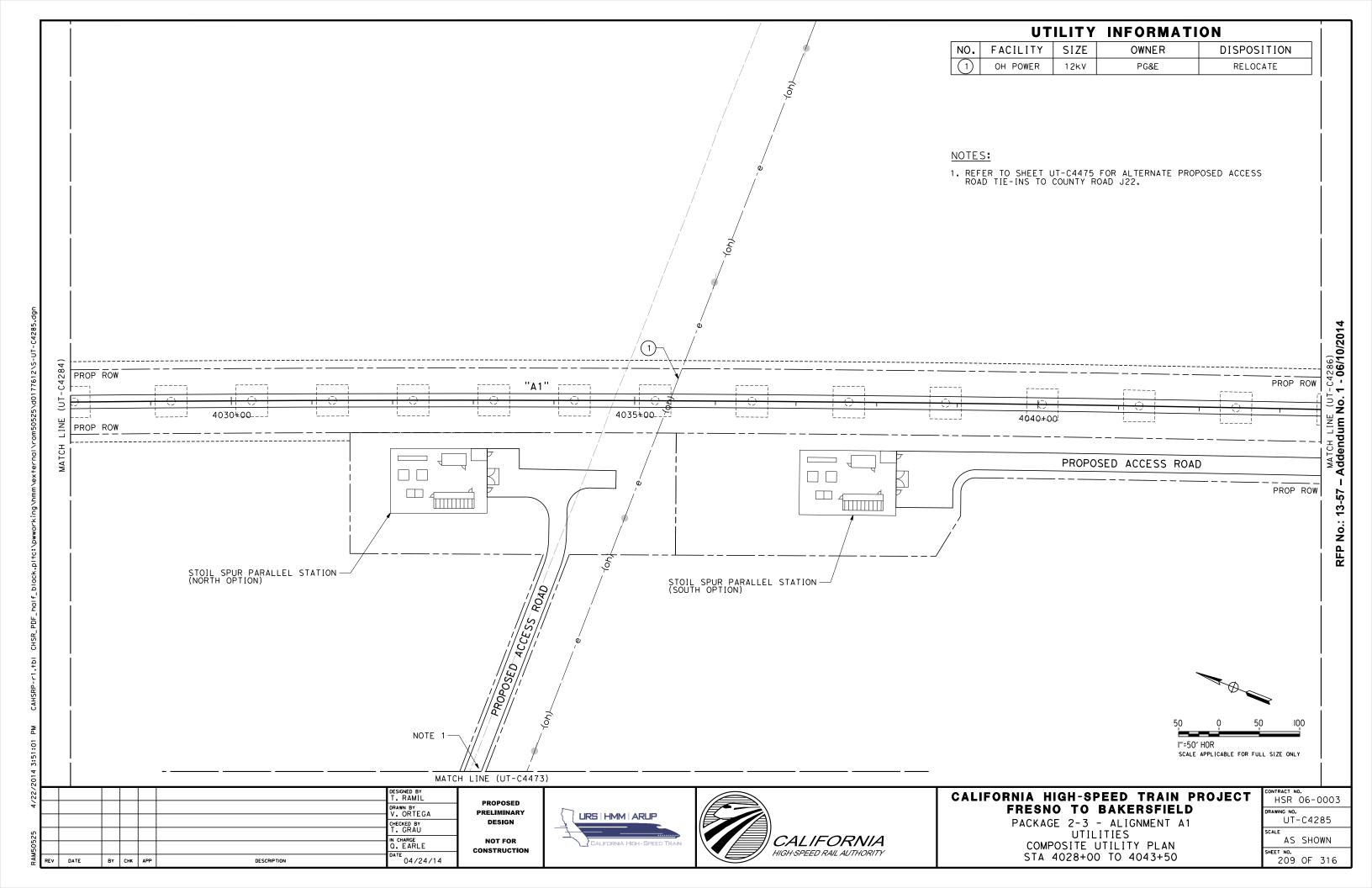


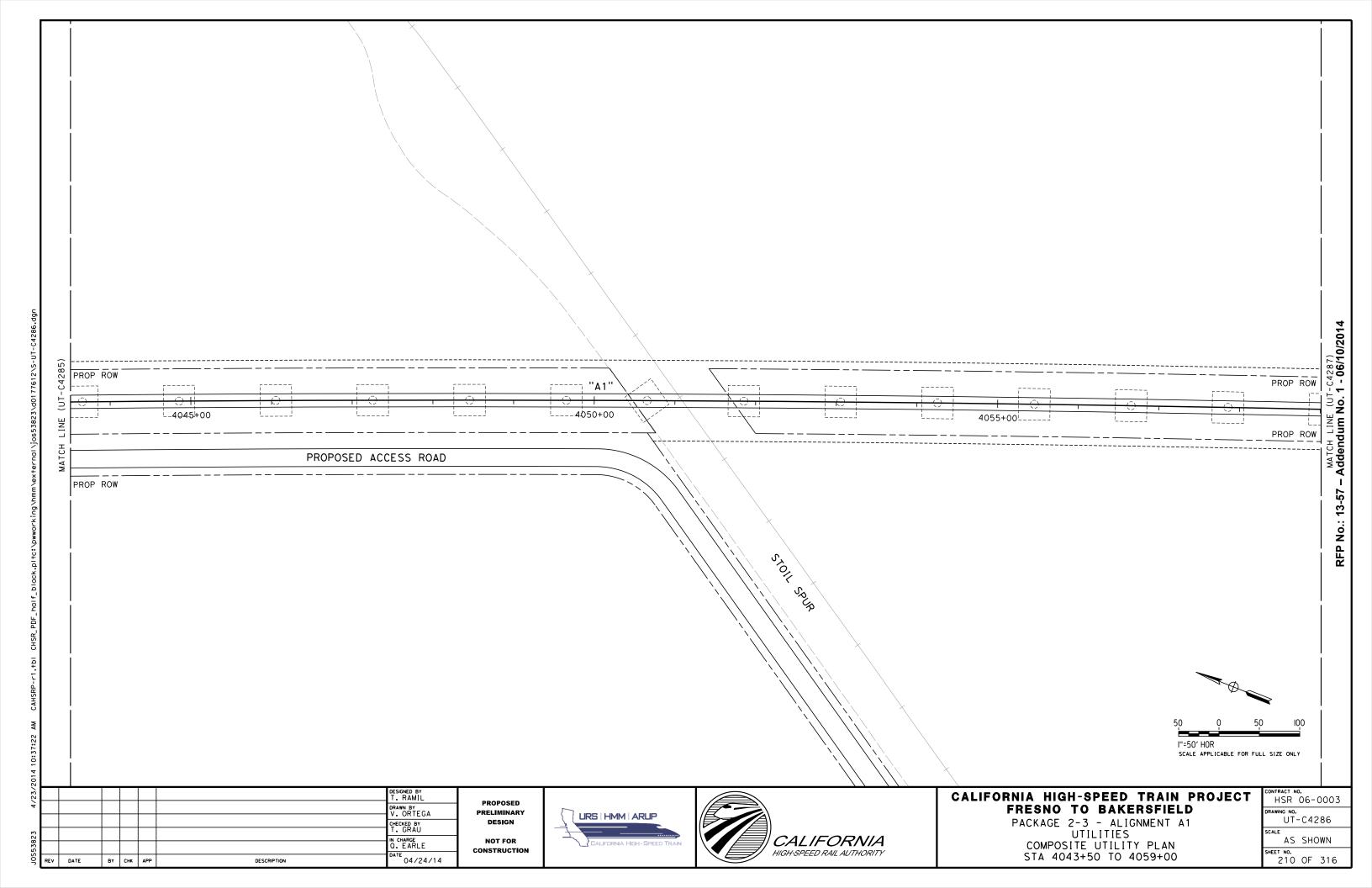


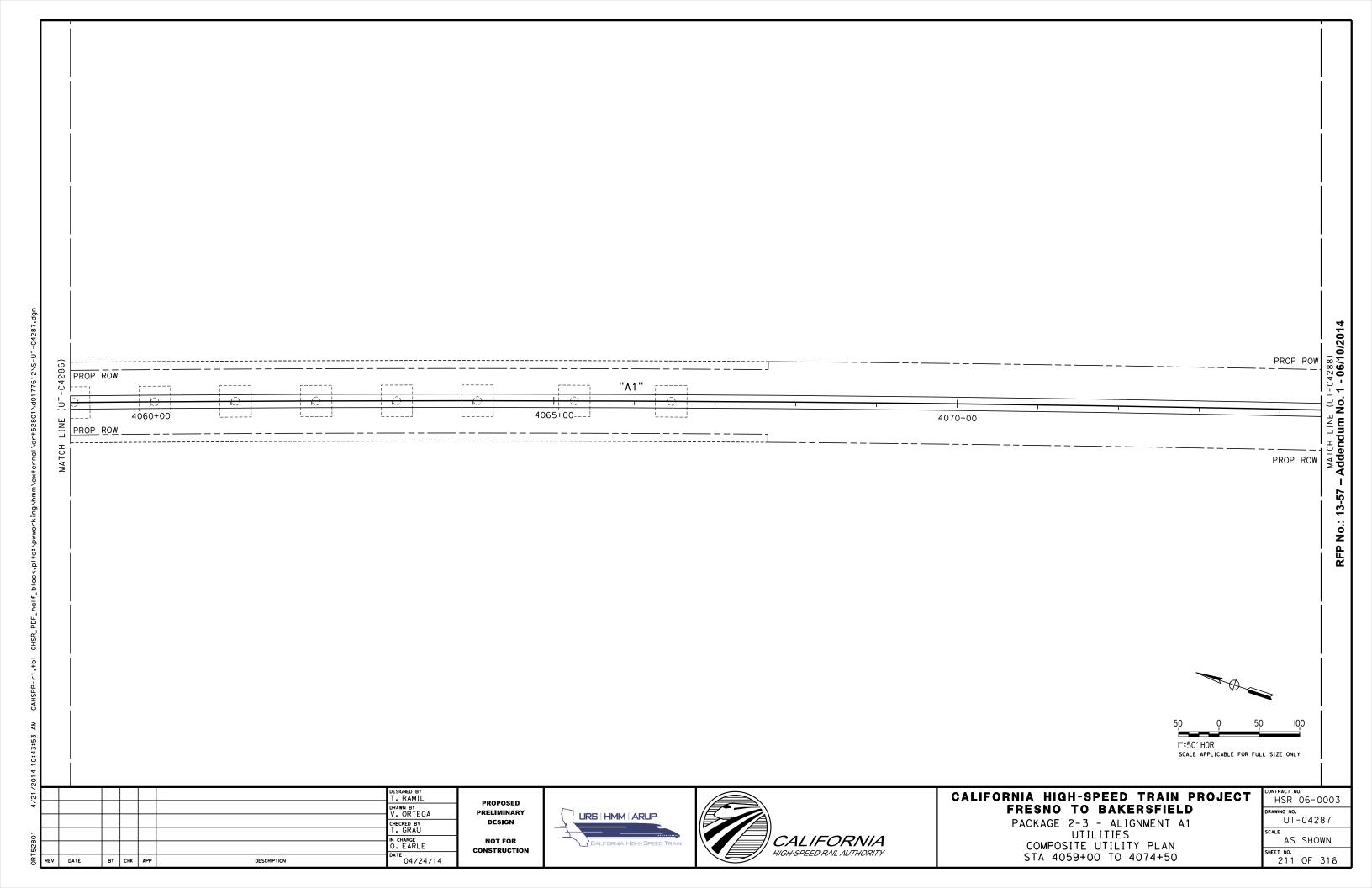


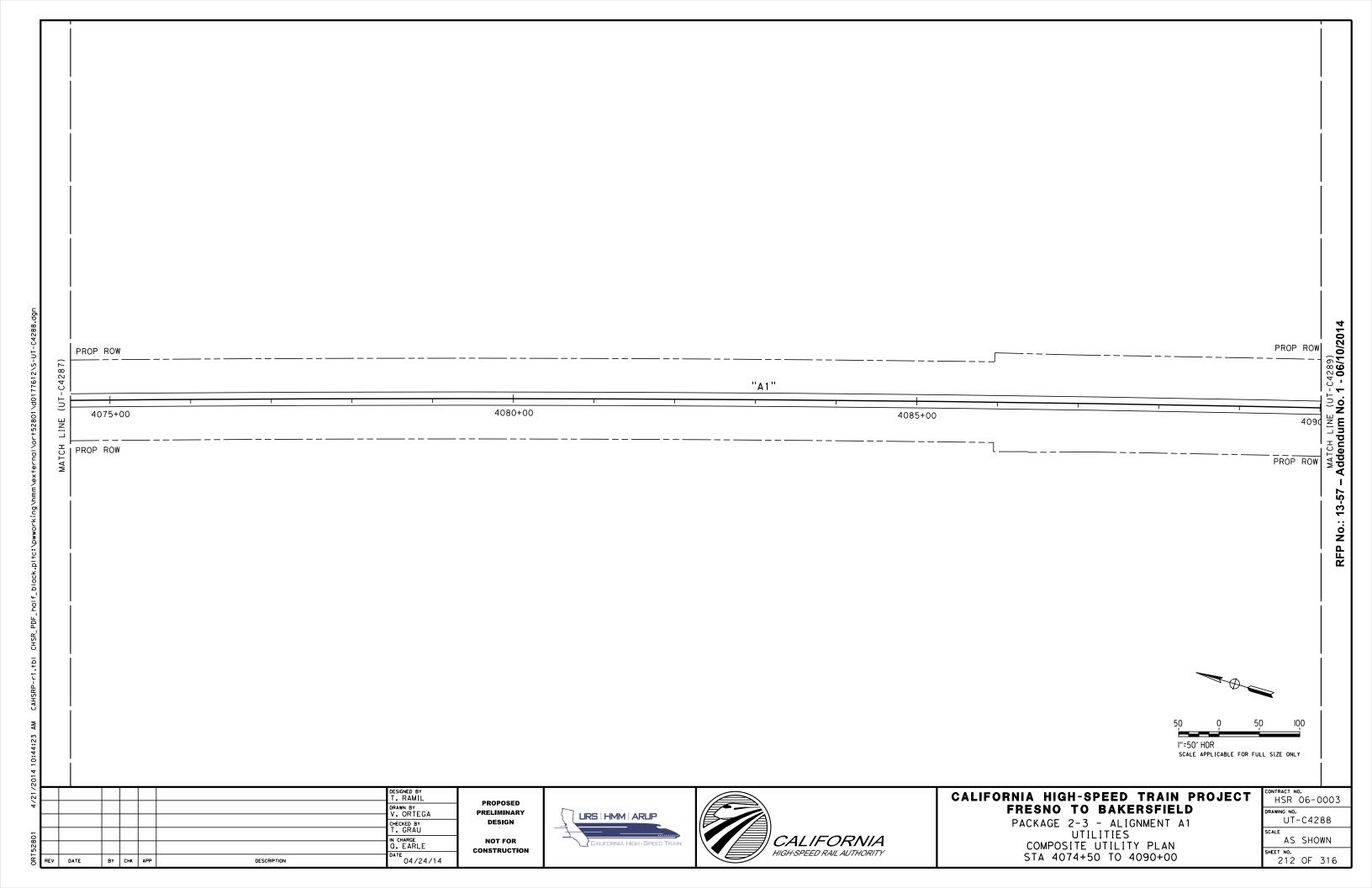


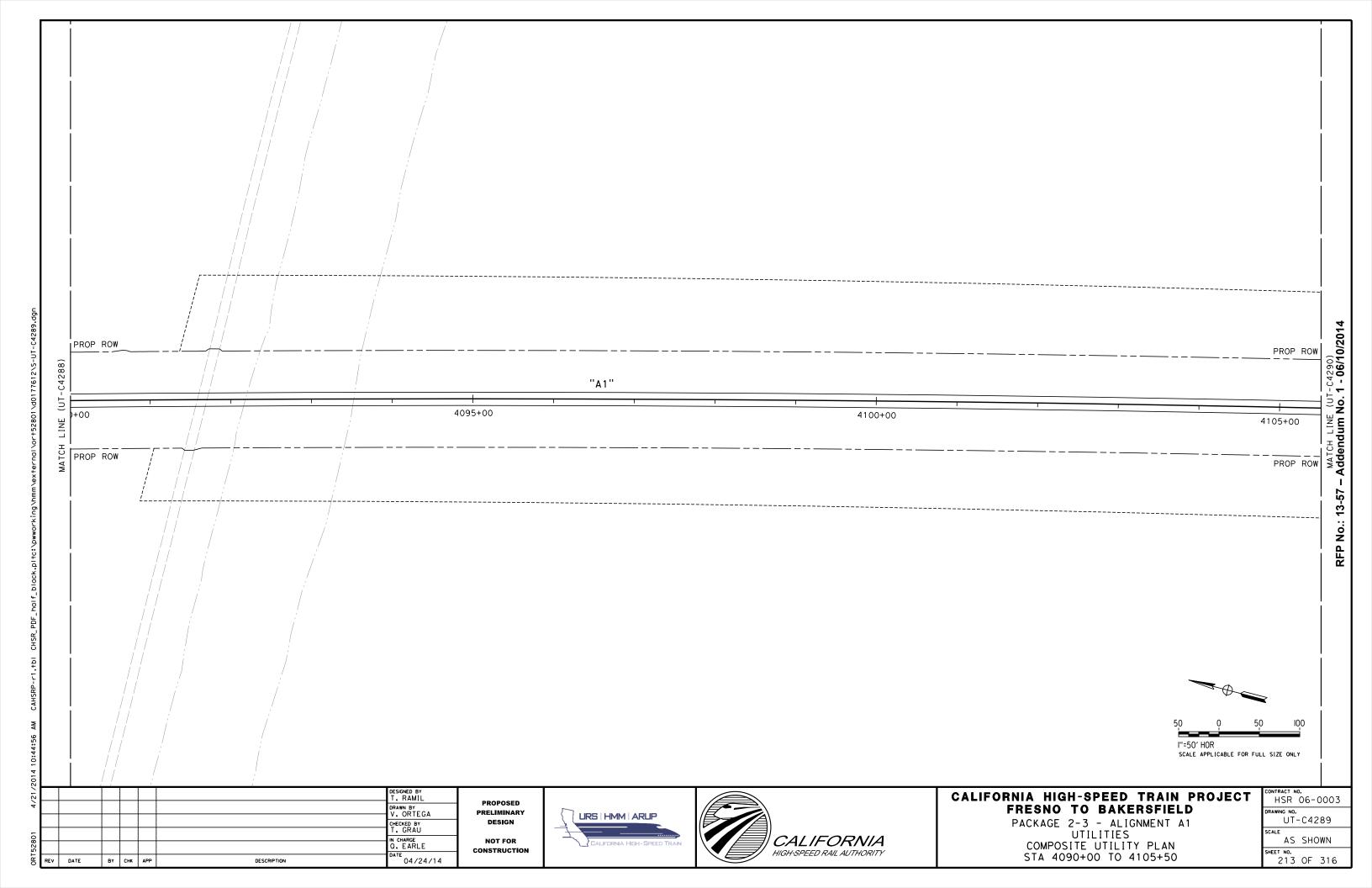


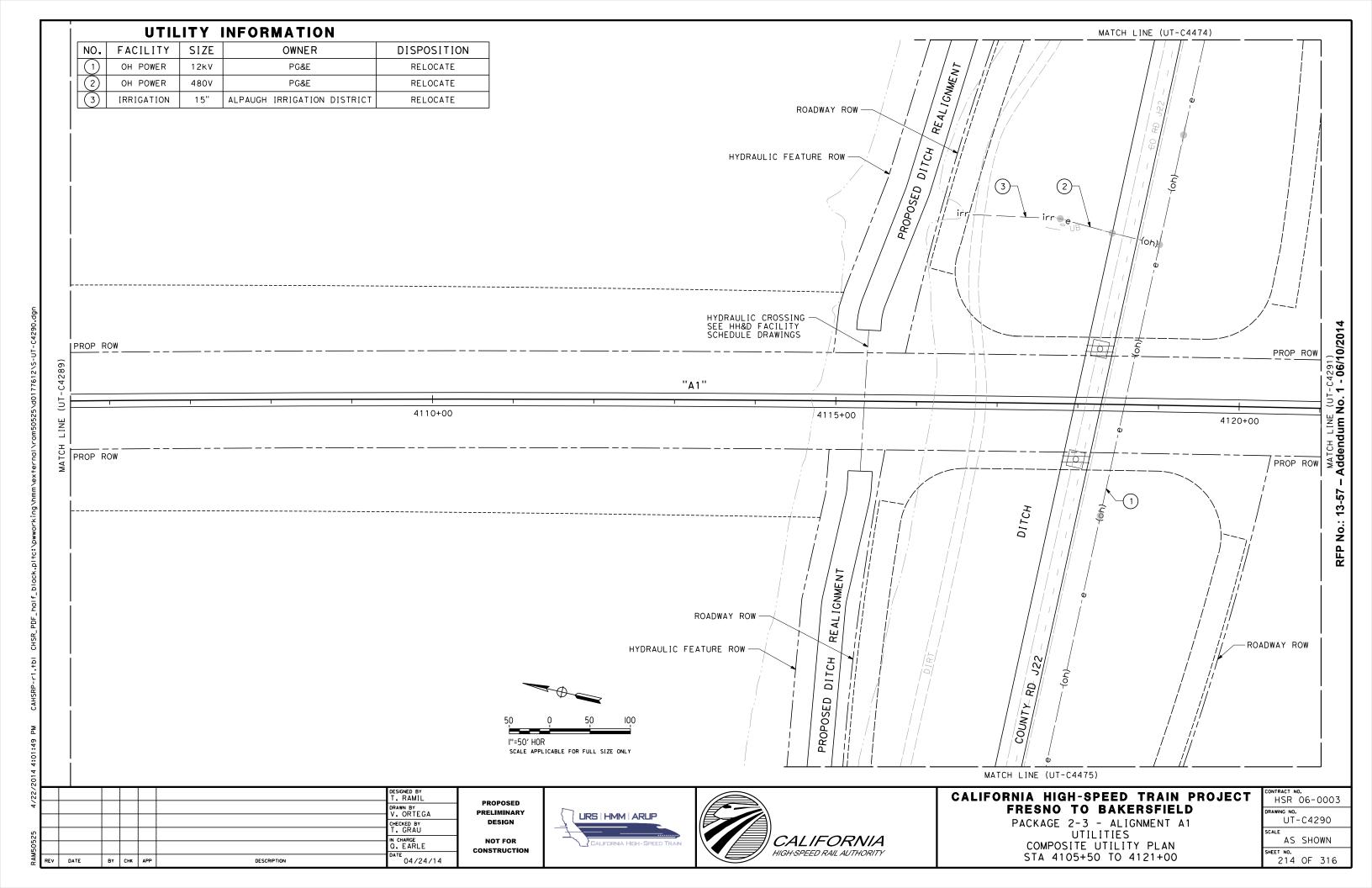


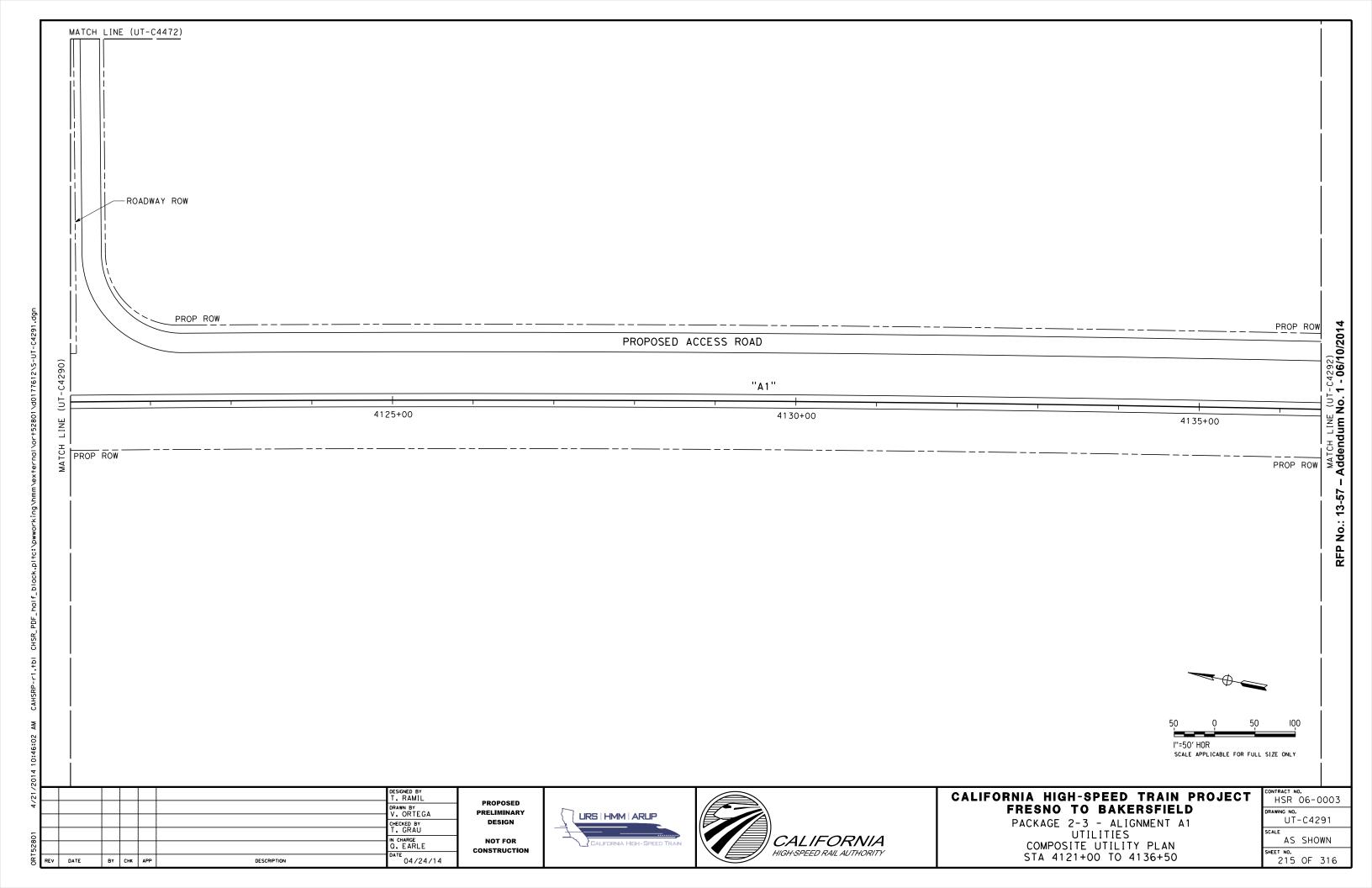


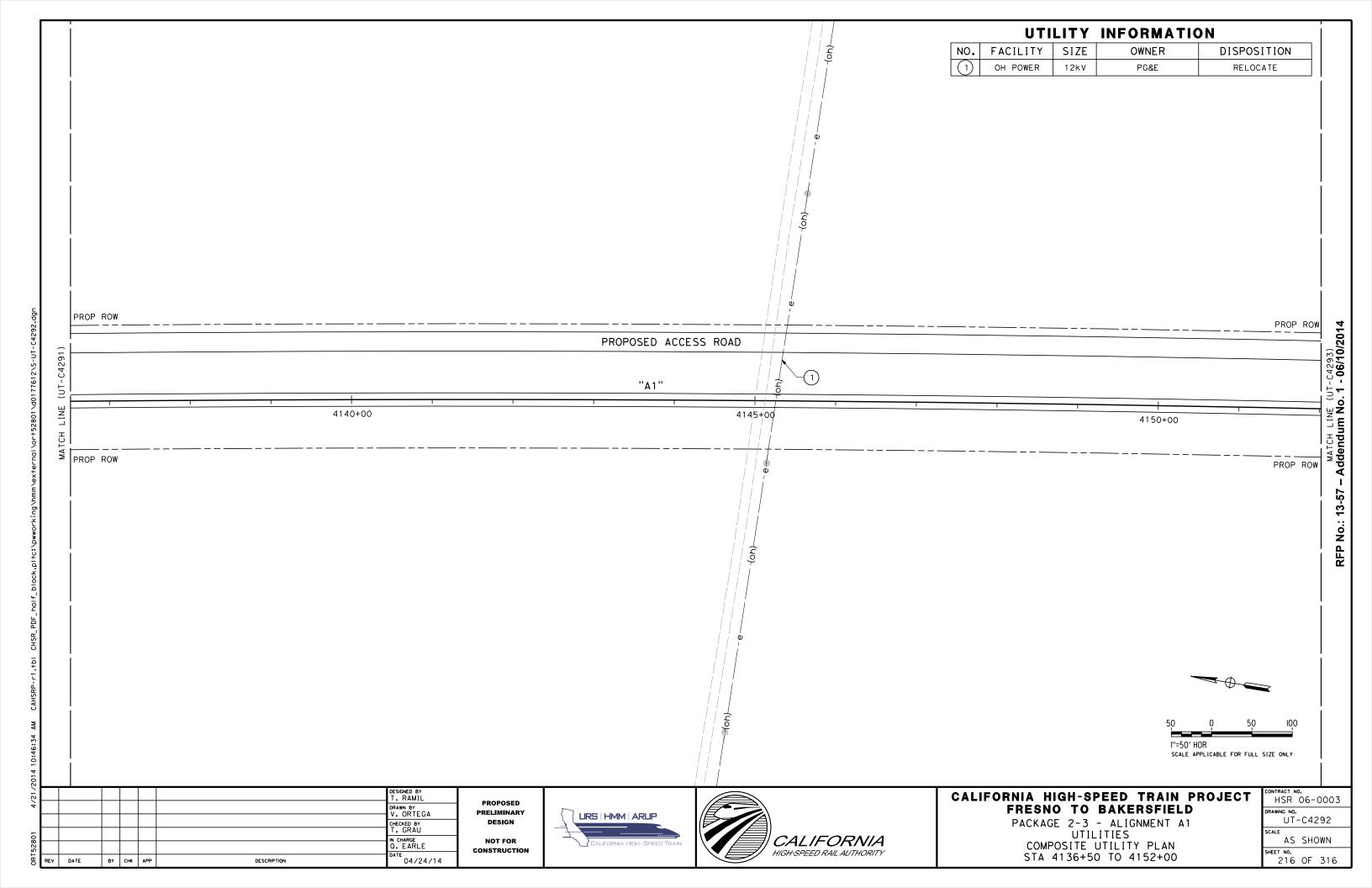


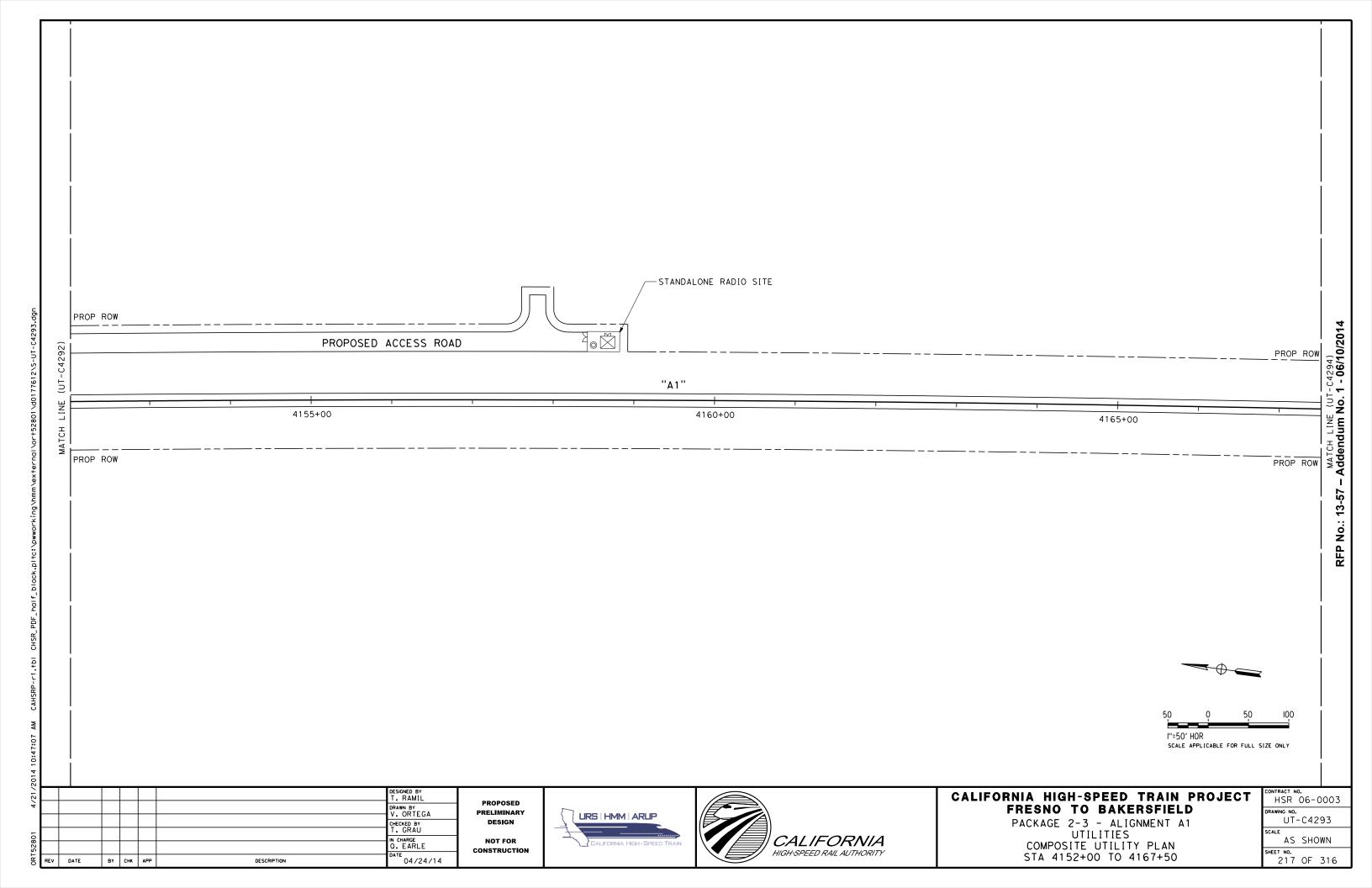


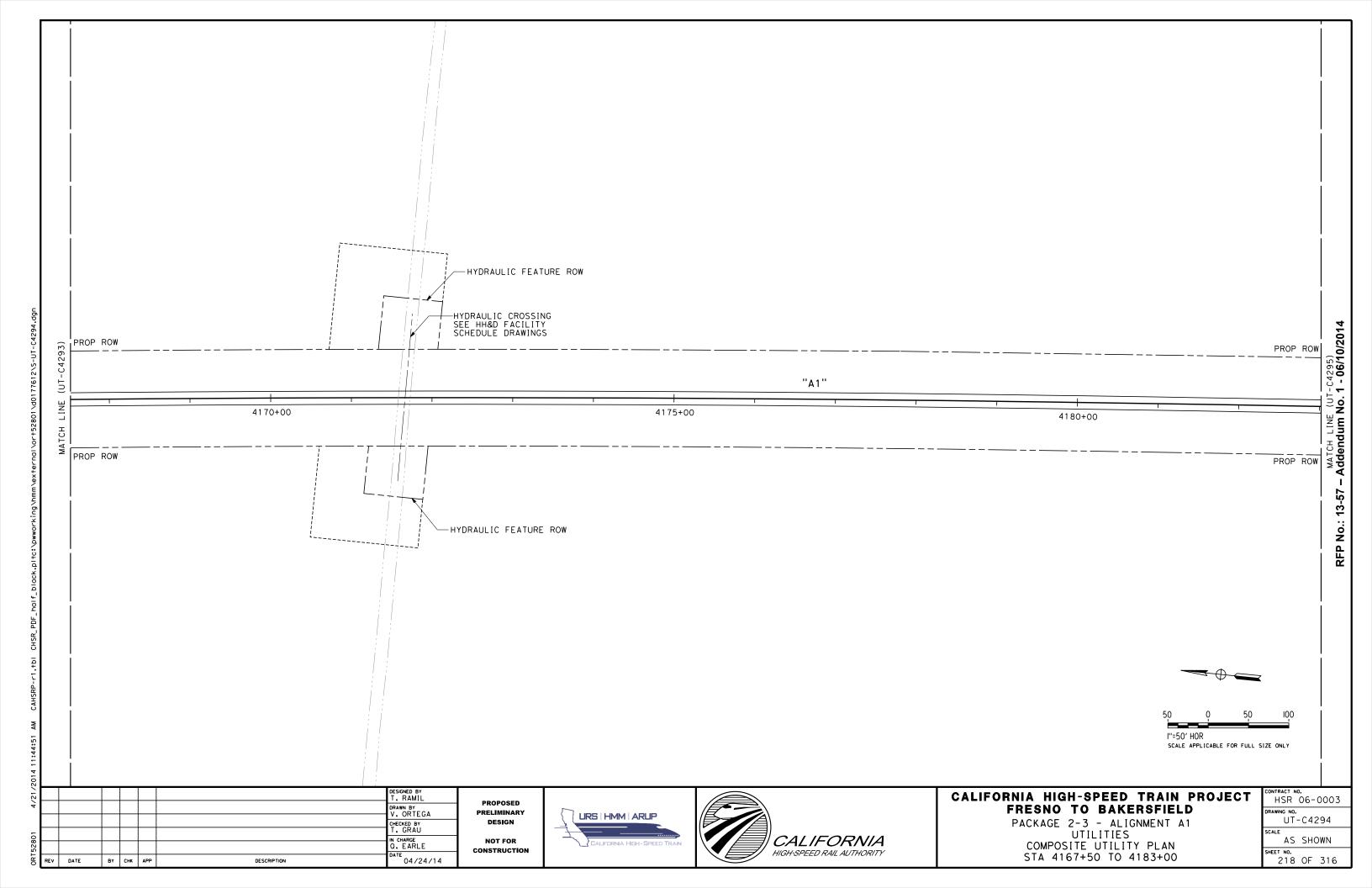


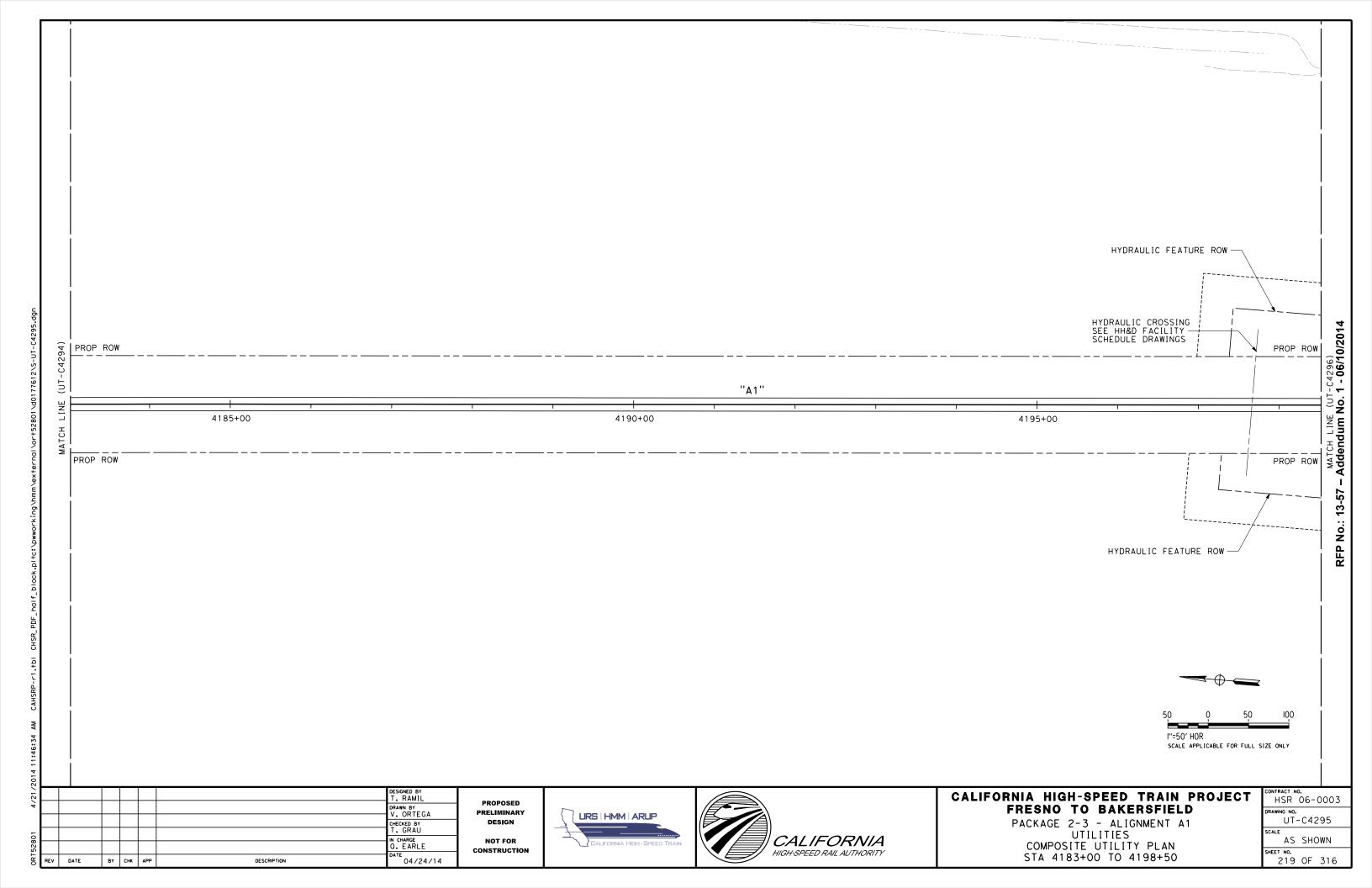


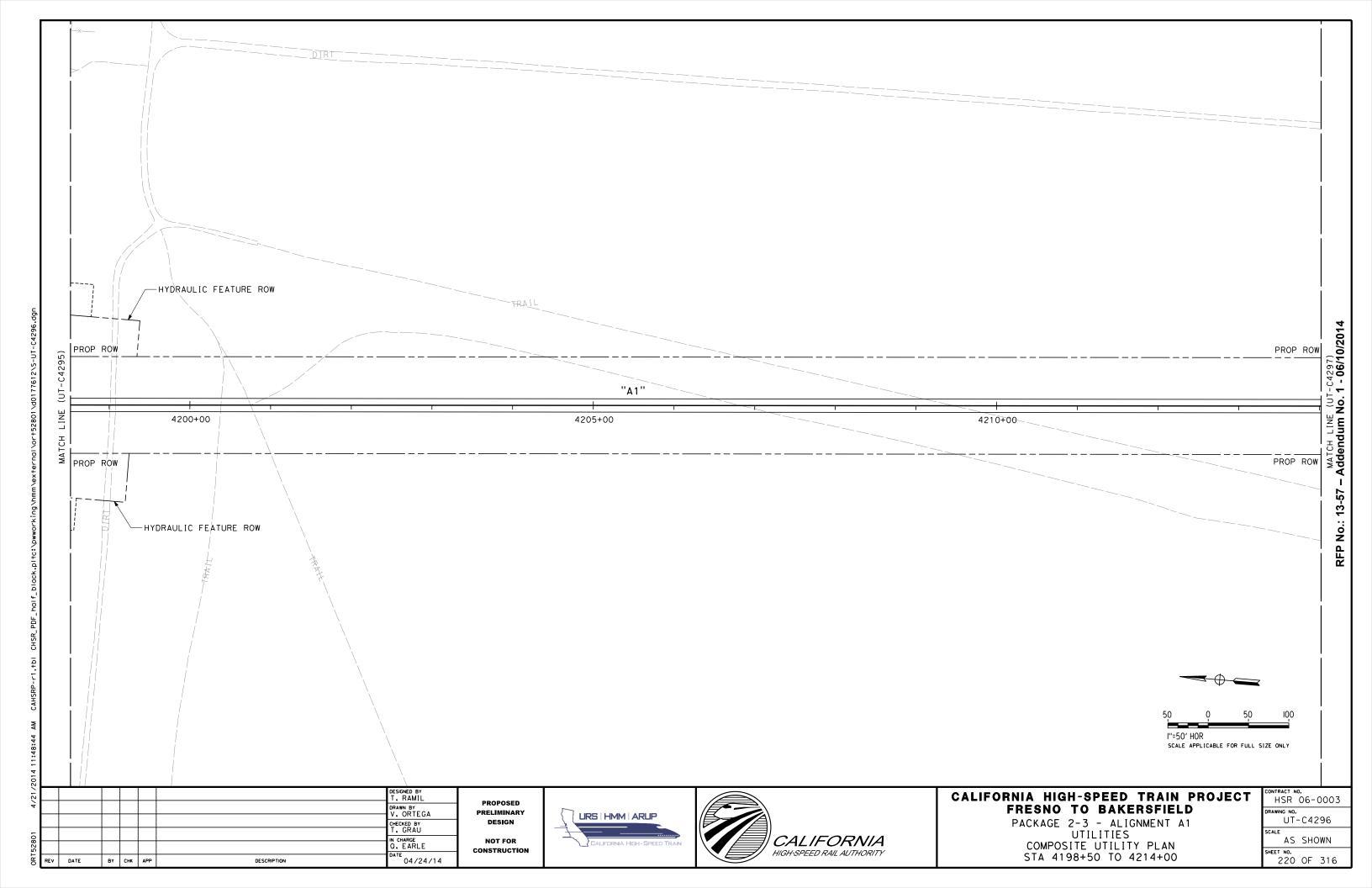


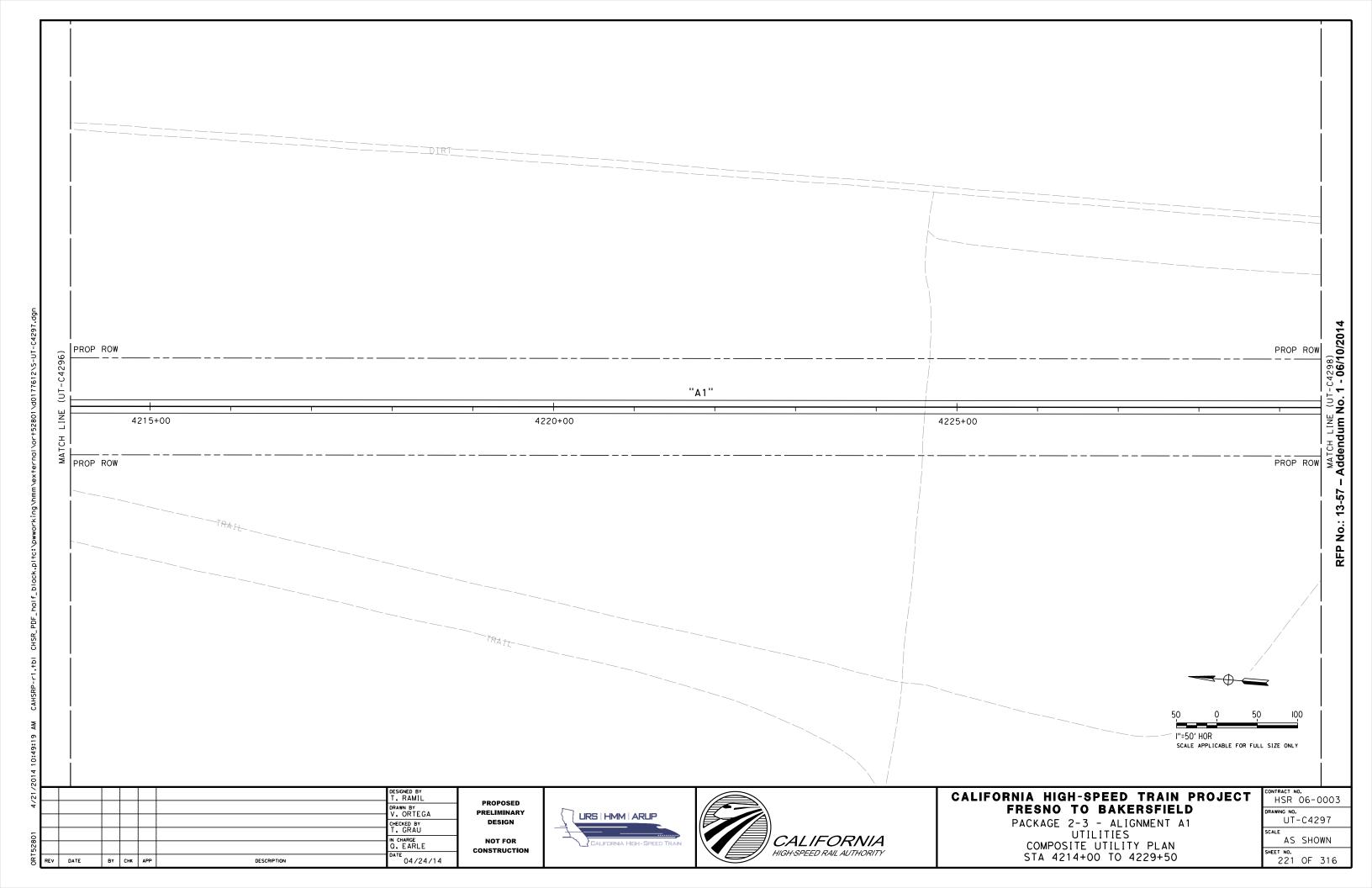


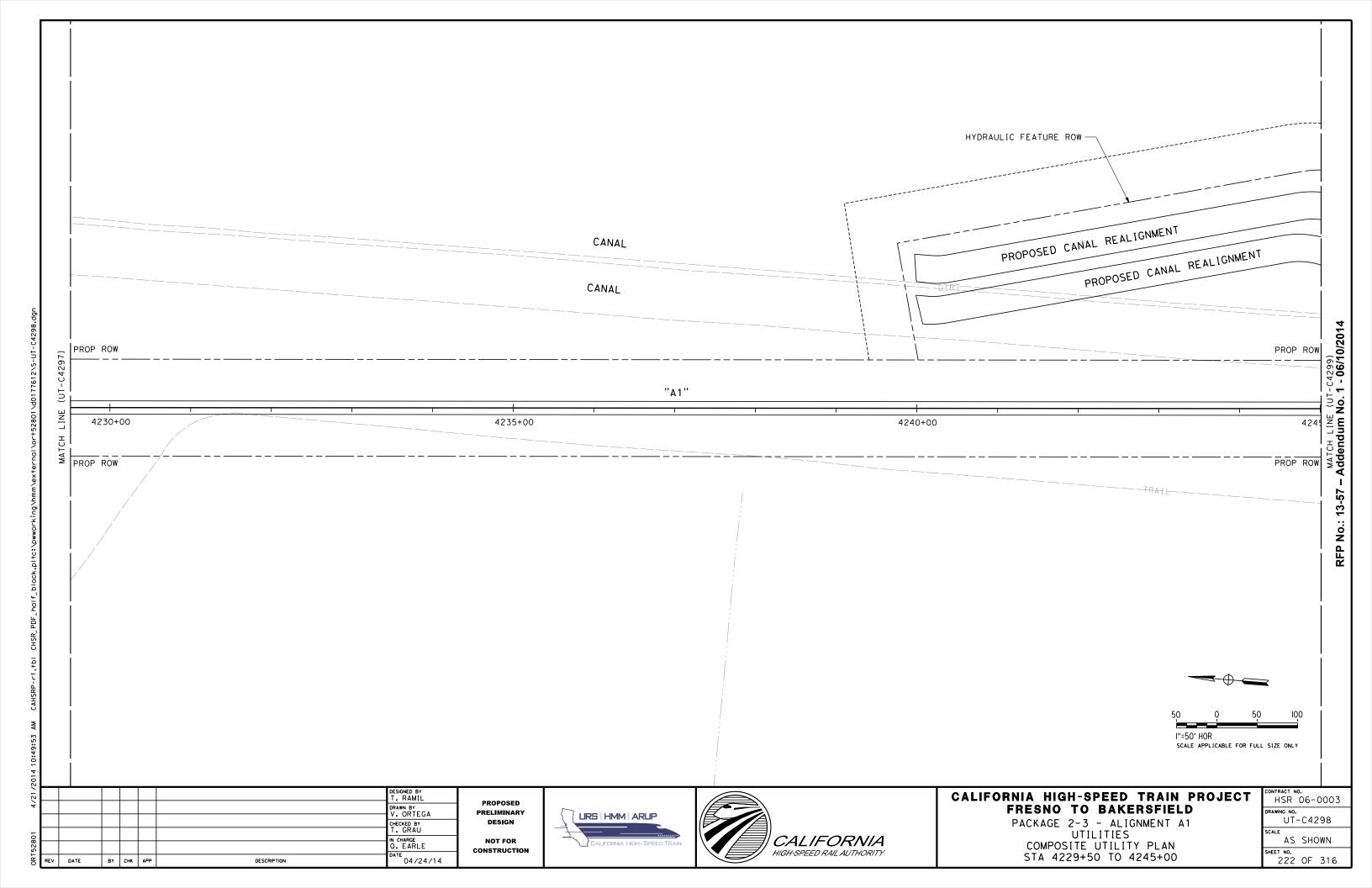


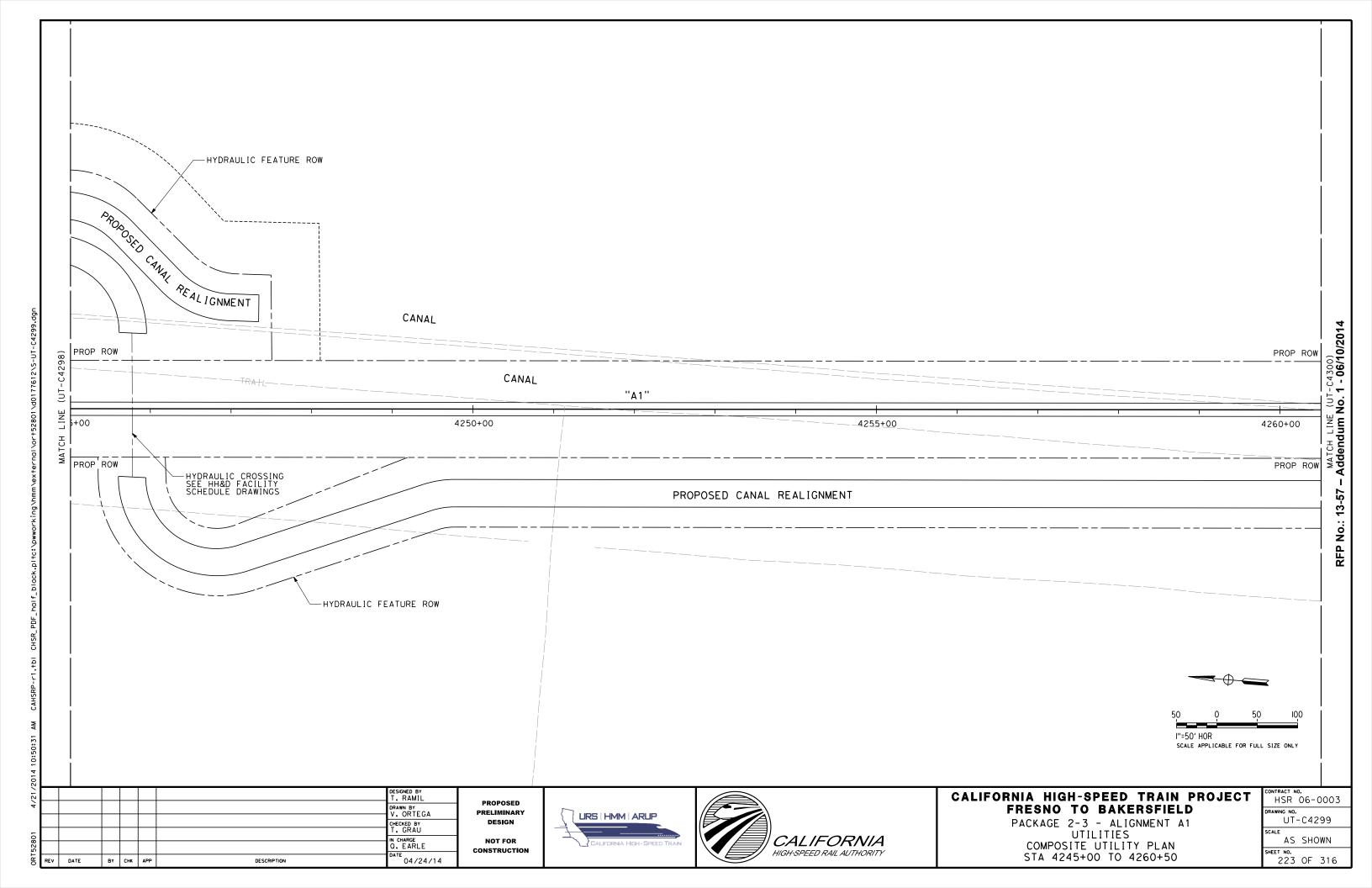


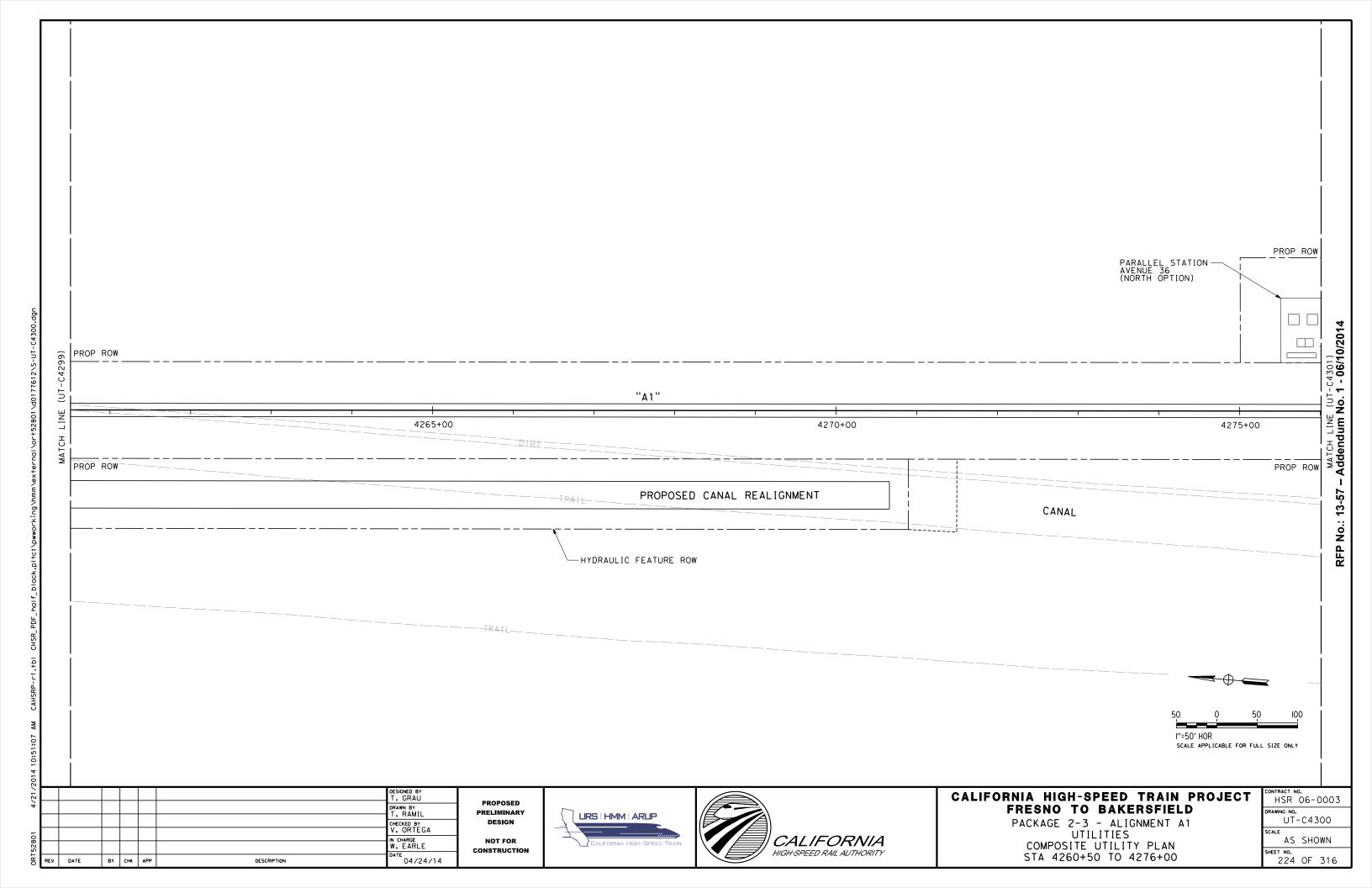


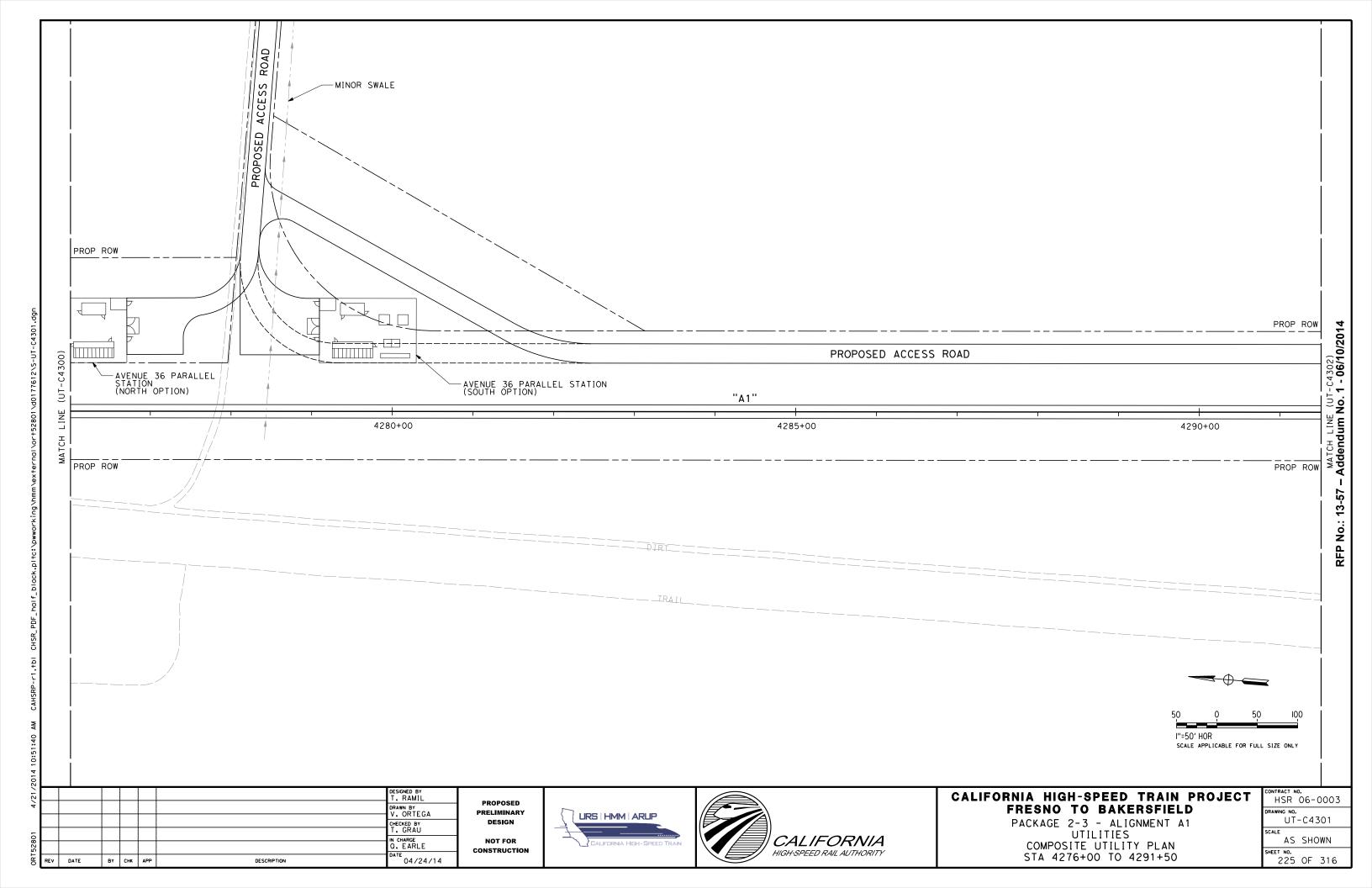


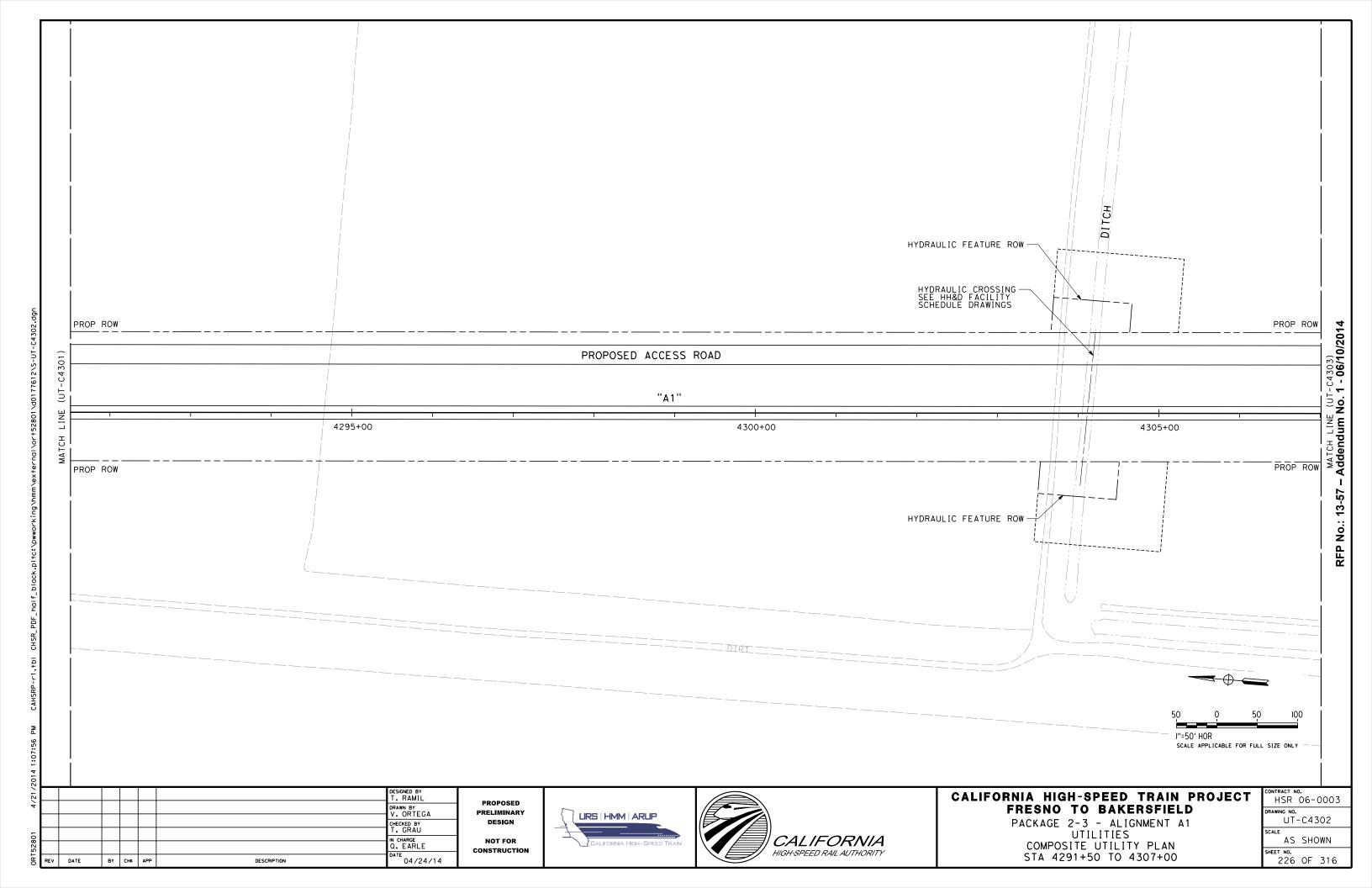


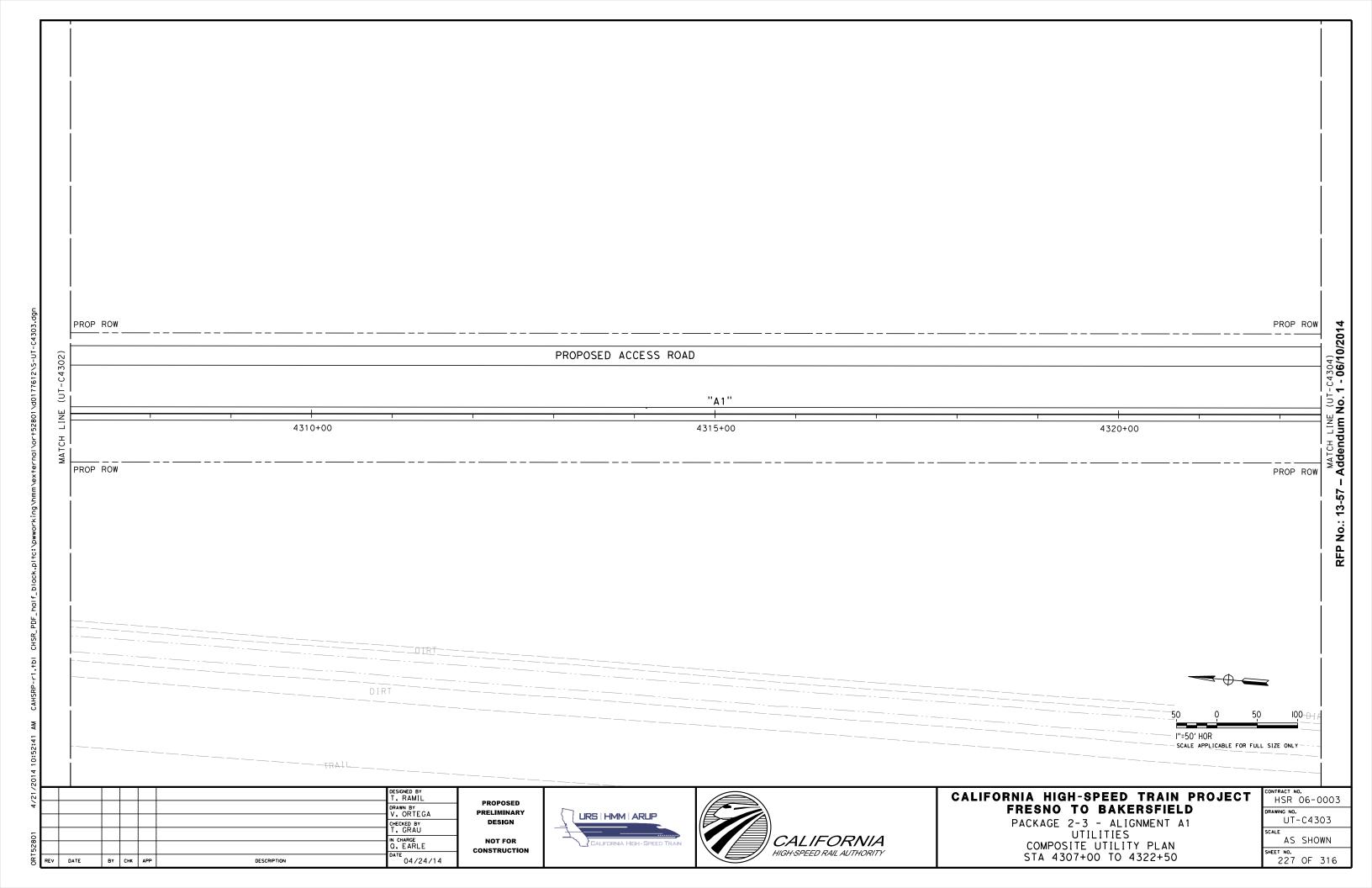


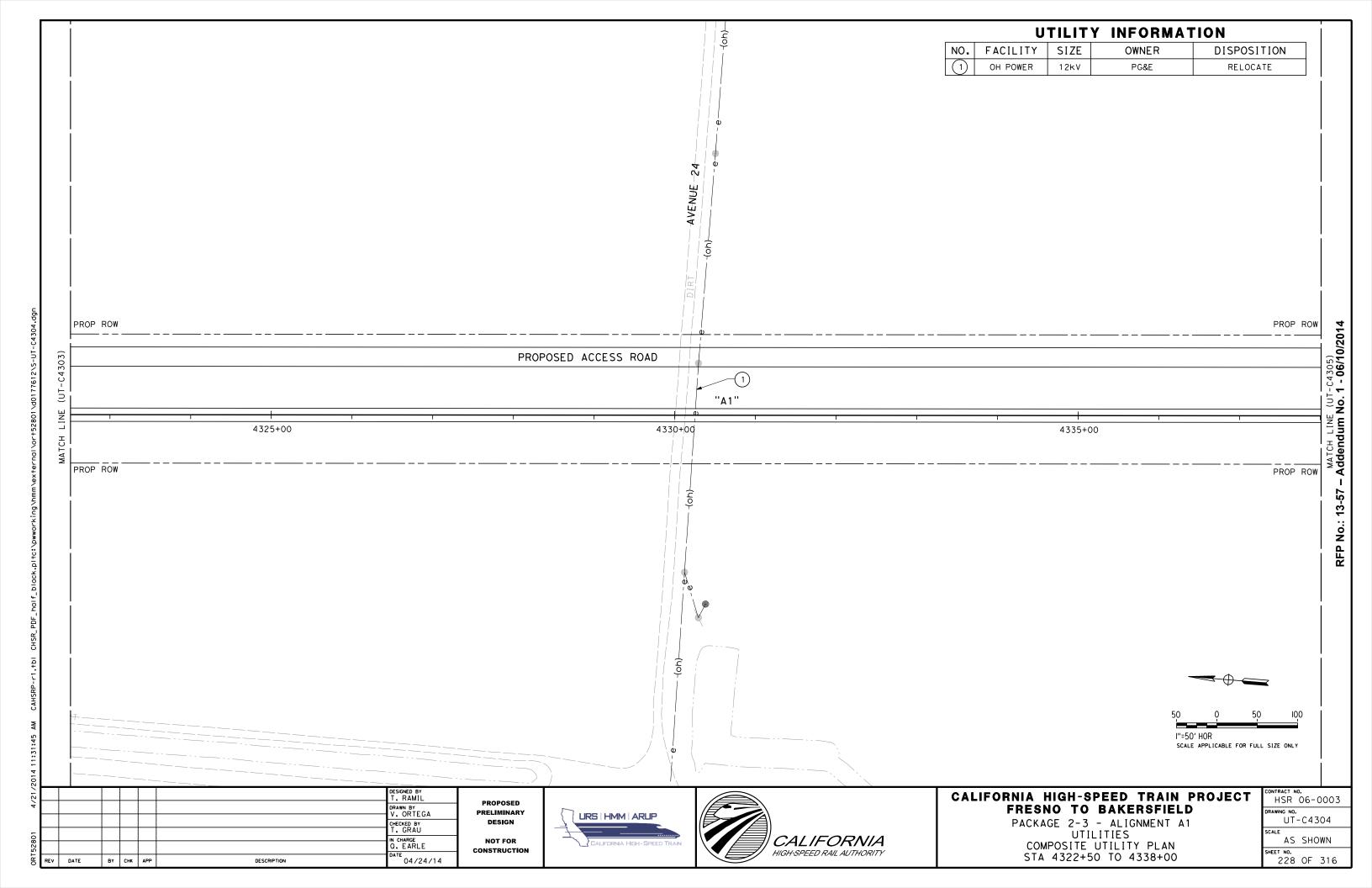


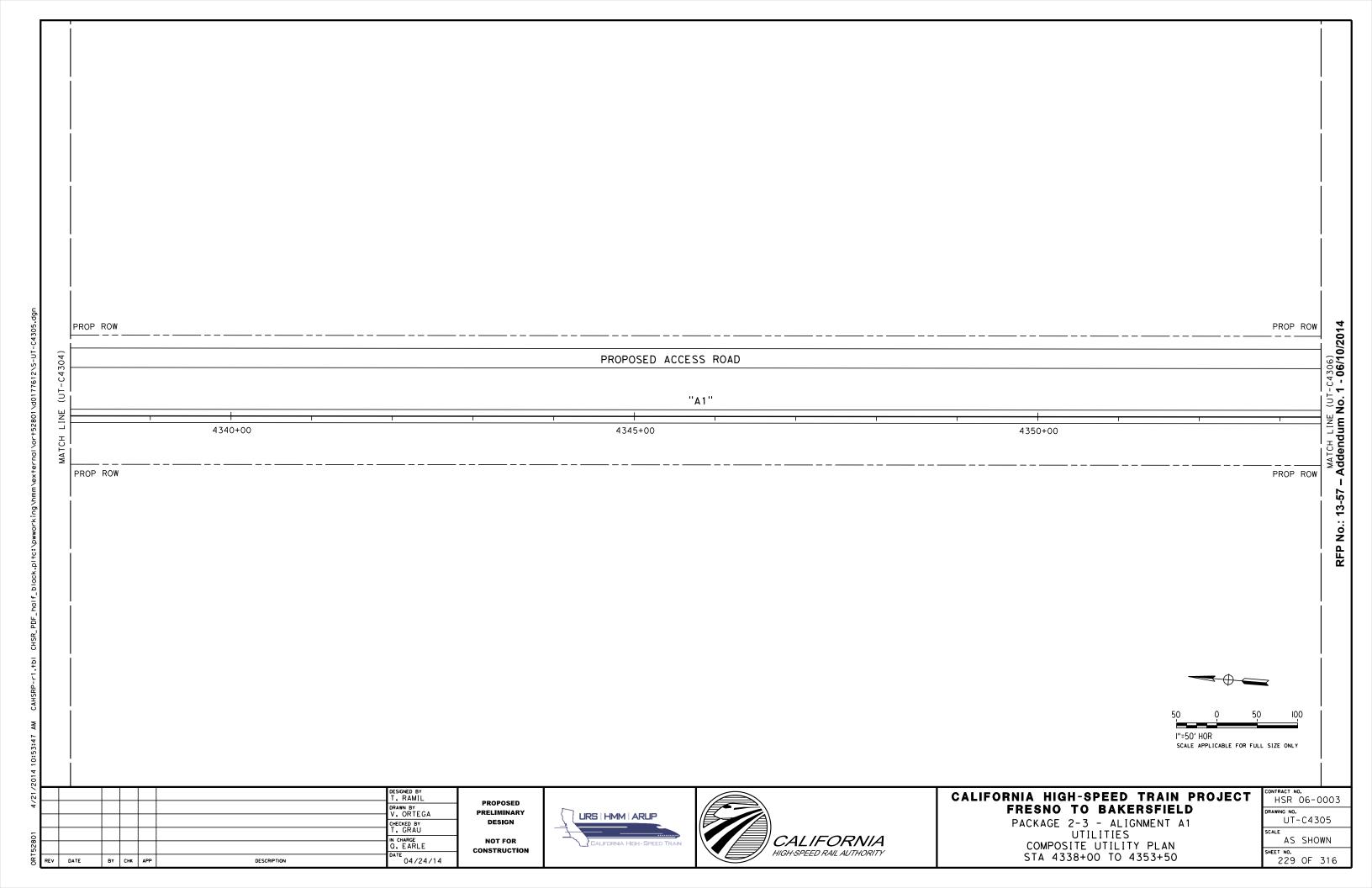


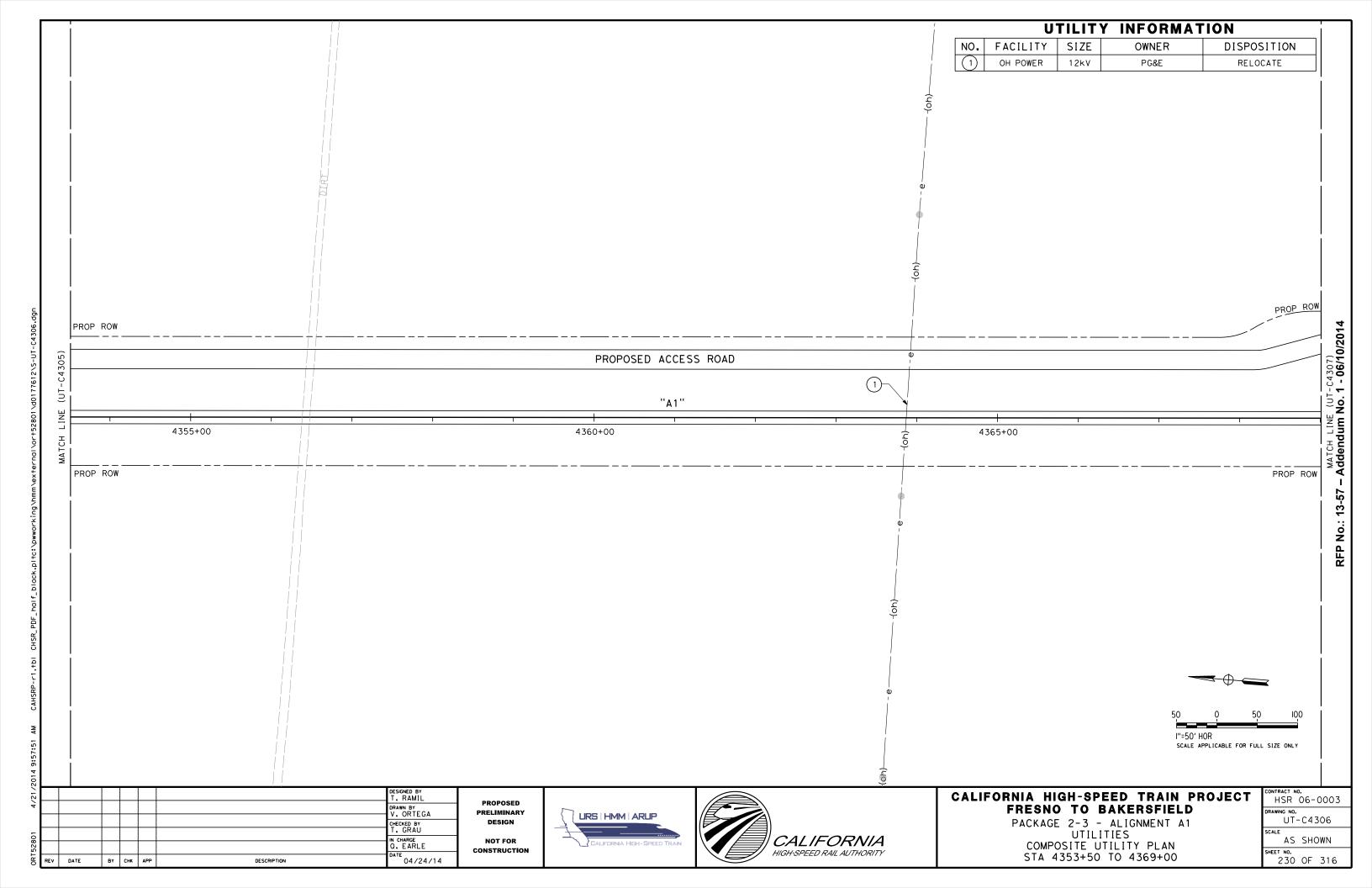


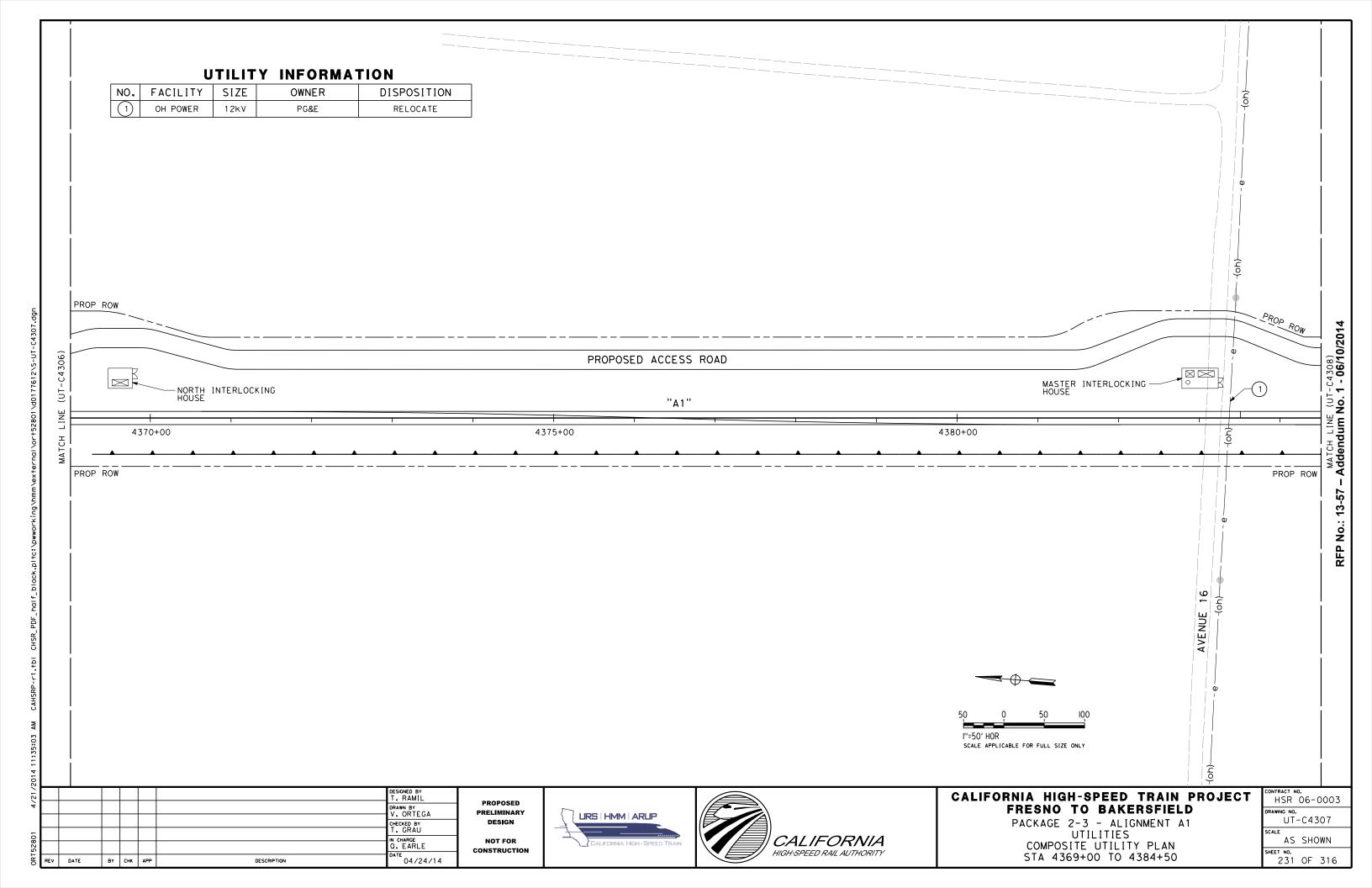


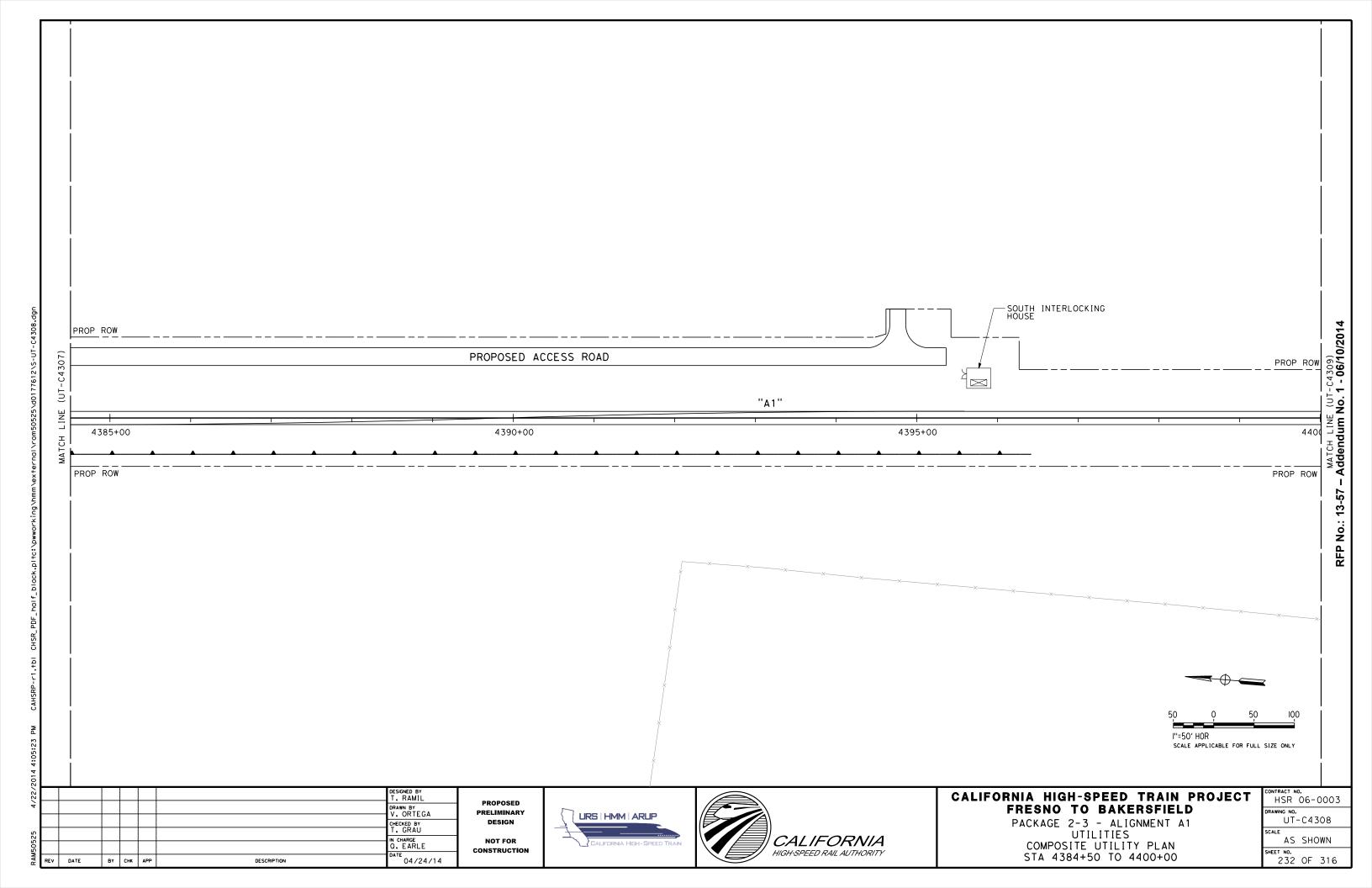


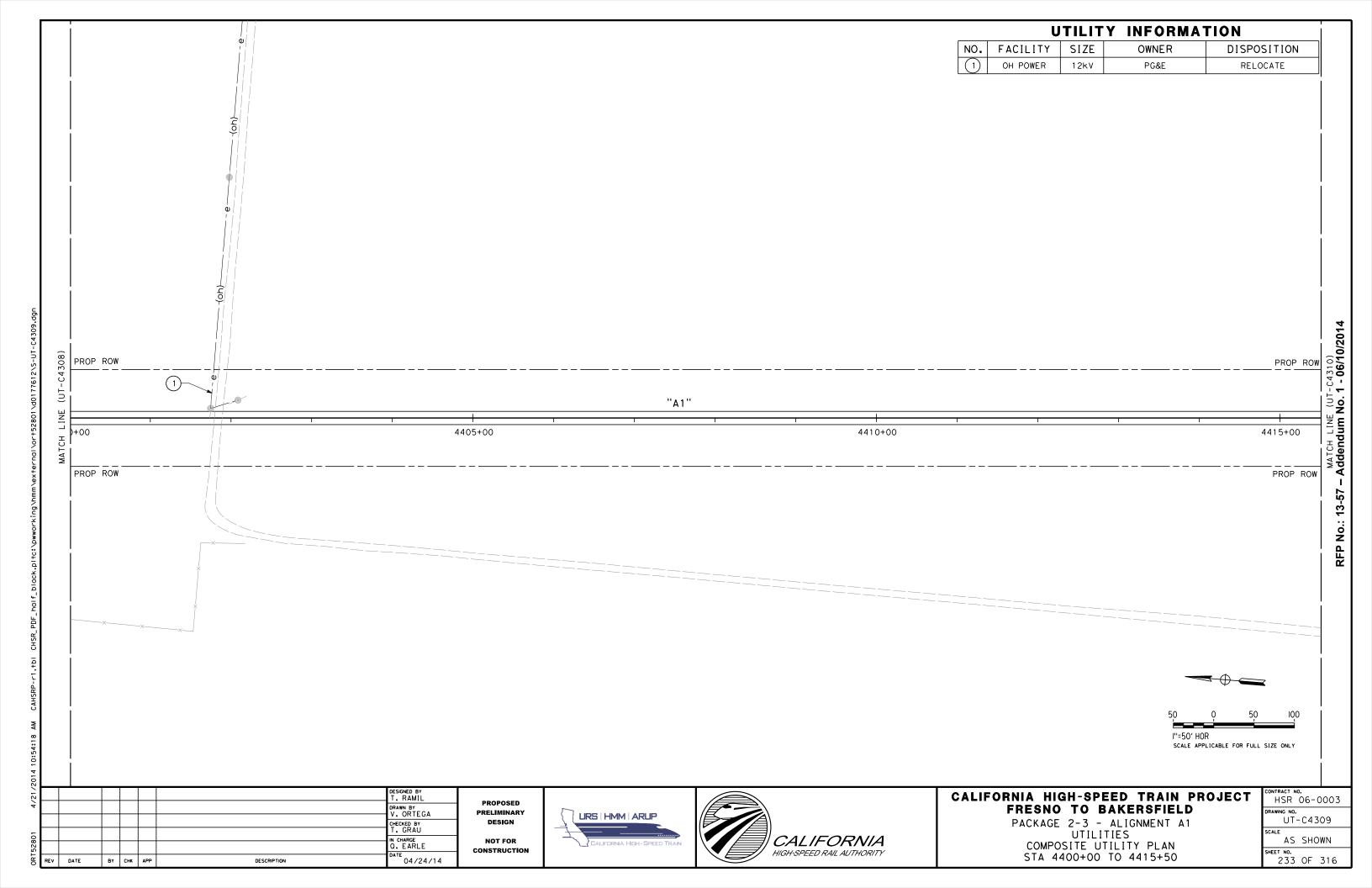


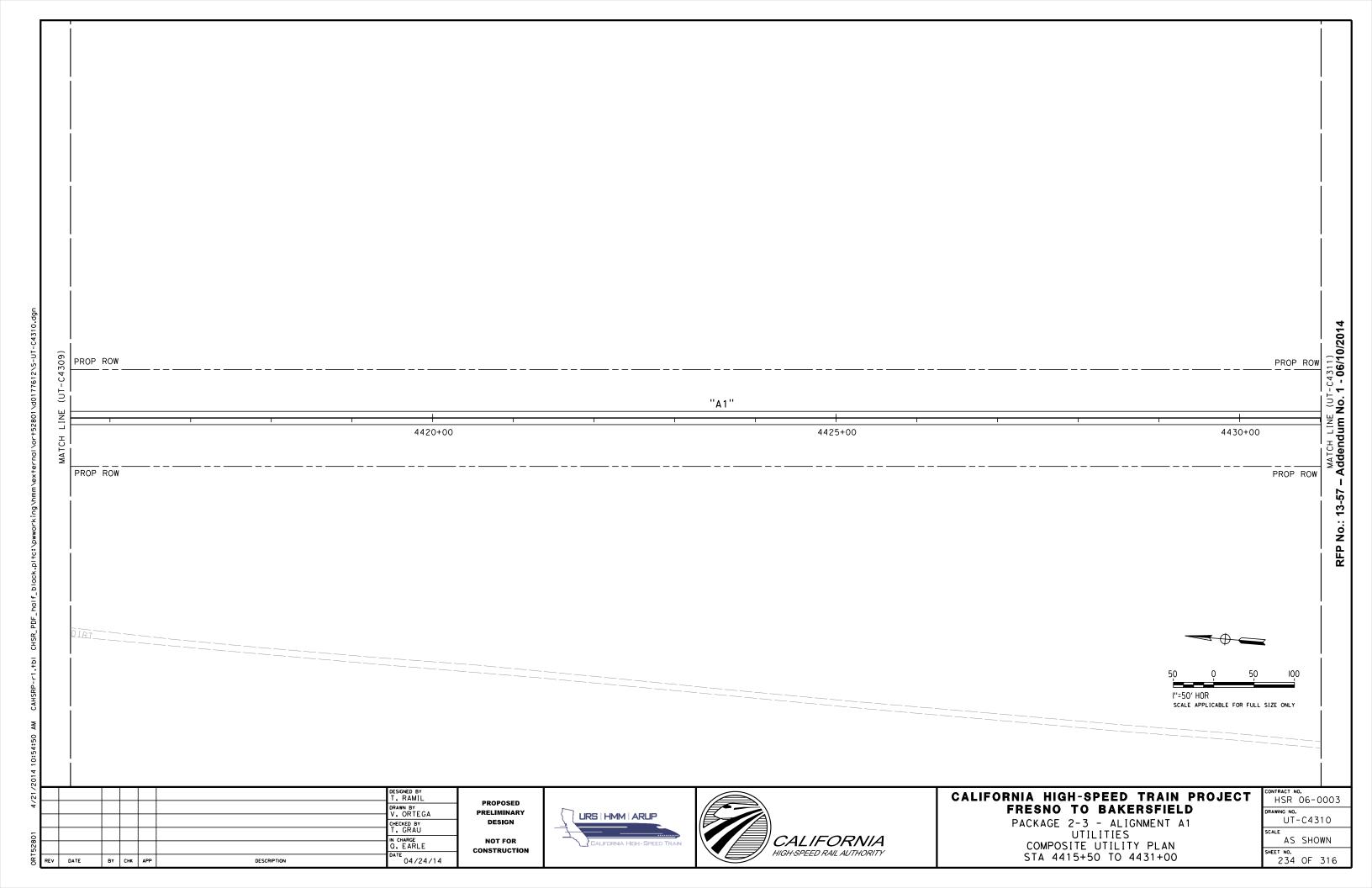


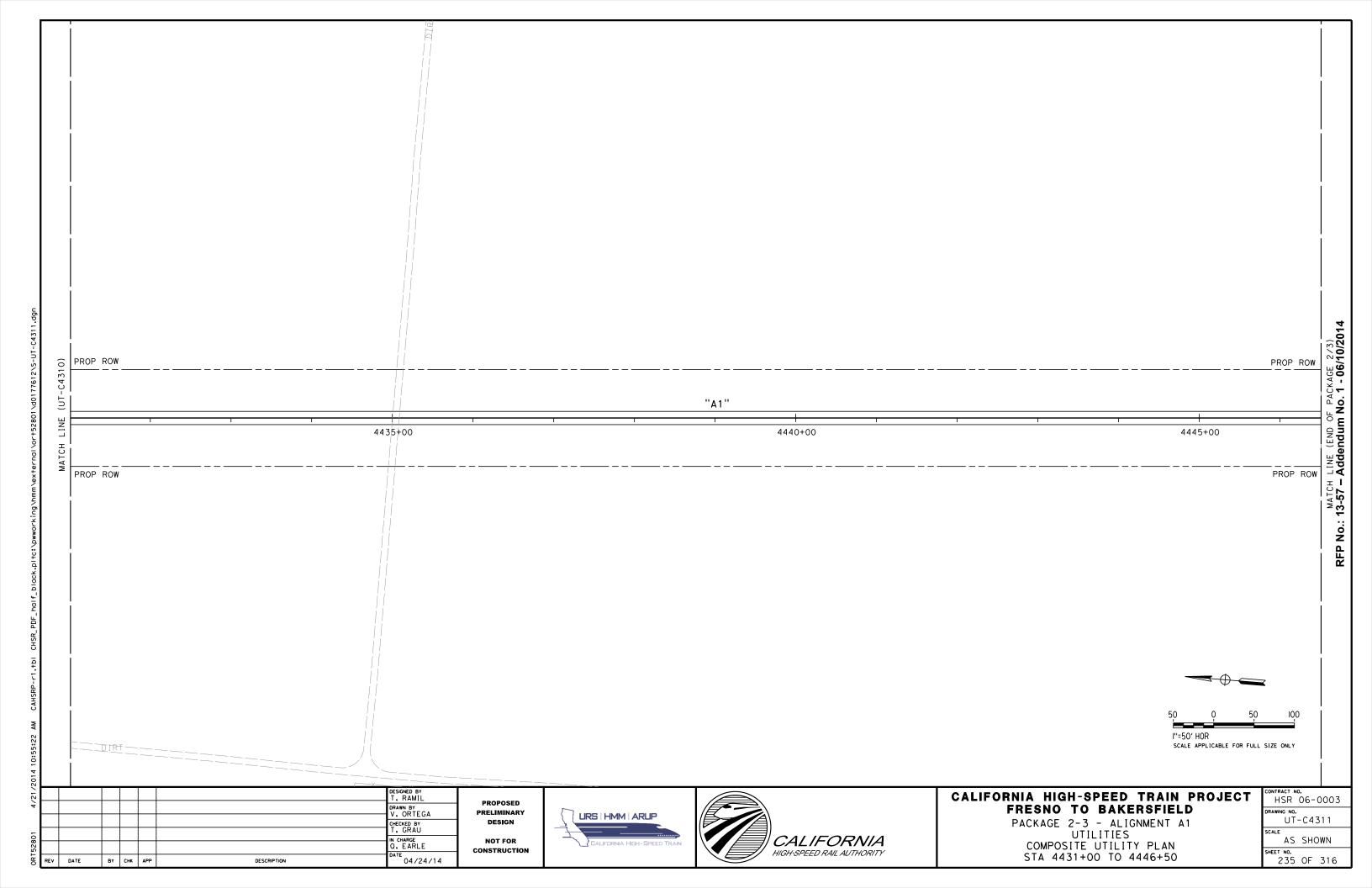


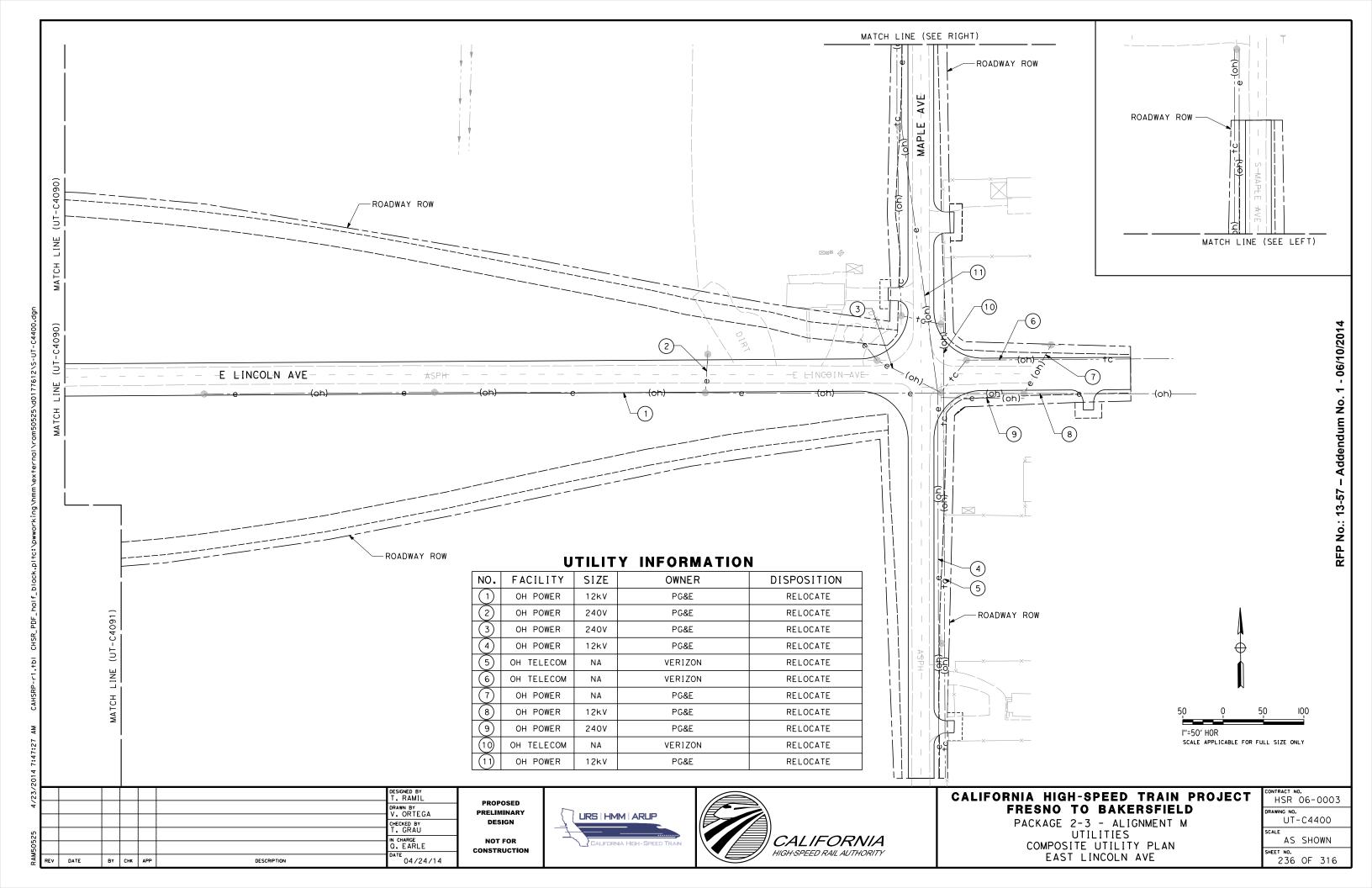












UTILITY INFORMATION FACILITY OWNER NO. DISPOSITION OH POWER 12kV PG&E RELOCATE OH POWER 240V PG&E RELOCATE OH TELECOM VERIZON NΑ RELOCATE OH TELECOM NA VERIZON RELOCATE OH TELECOM VERIZON RELOCATE NA (6) PG&E OH POWER 12kV RELOCATE OH TELECOM NA VERIZON RELOCATE OH POWER 240V PG&E RELOCATE ROADWAY ROW-AVE CEDAR ROADWAY ROW-E-LINCOLN AVE RFP No.: 13-57 ROADWAY ROW ROADWAY ROW-I"=50' HOR SCALE APPLICABLE FOR FULL SIZE ONLY DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR 06-0003 PROPOSED DRAWN BY V. ORTEGA FRESNO TO BAKERSFIELD PRELIMINARY URS | HMM | ARUP UT-C4401 PACKAGE 2-3 - ALIGNMENT M UTILITIES DESIGN CHECKED BY CALIFORNIA AS SHOWN IN CHARGE Q. EARLE NOT FOR COMPOSITE UTILITY PLAN CONSTRUCTION

04/24/14

DATE

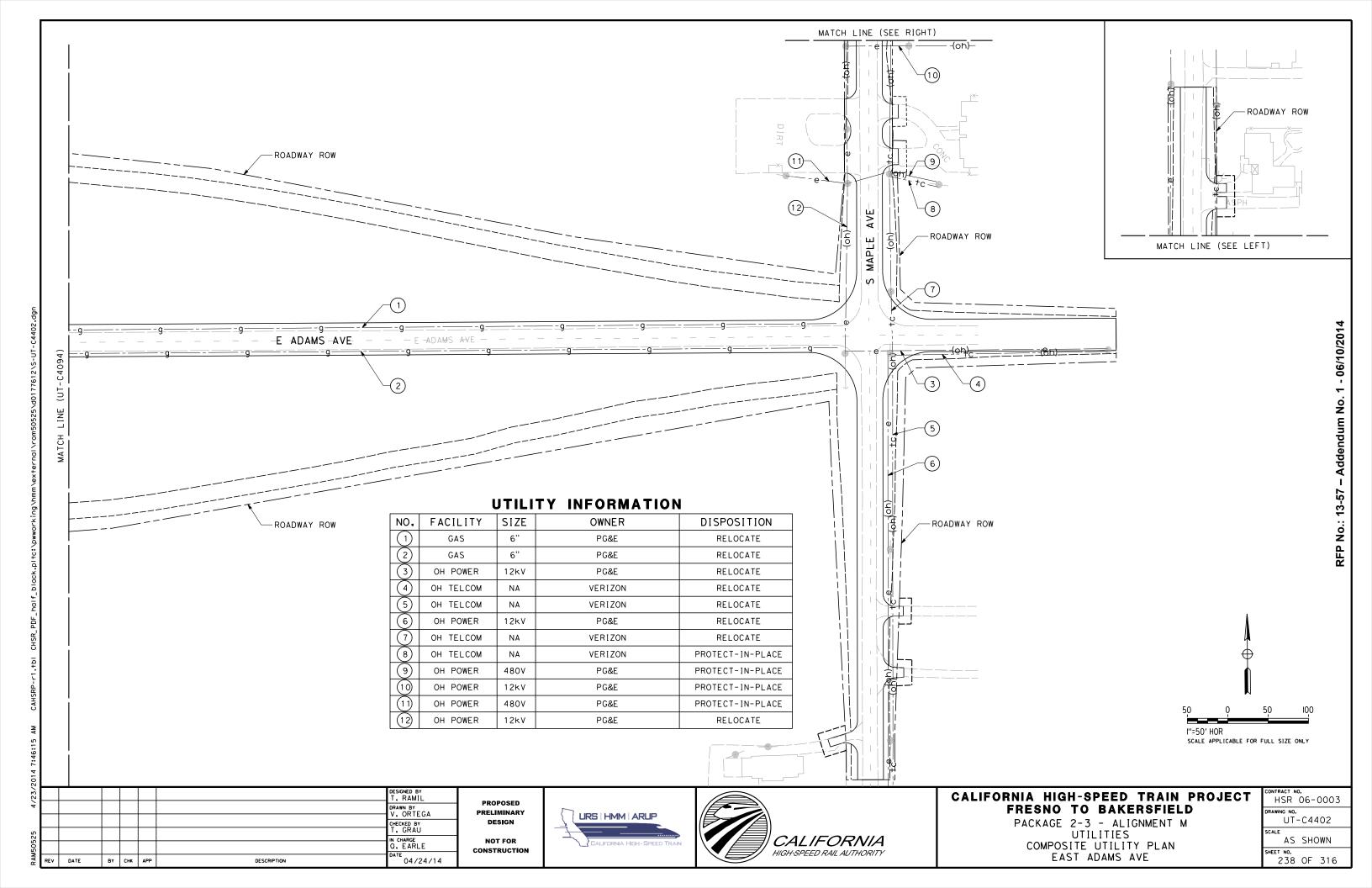
BY CHK APP

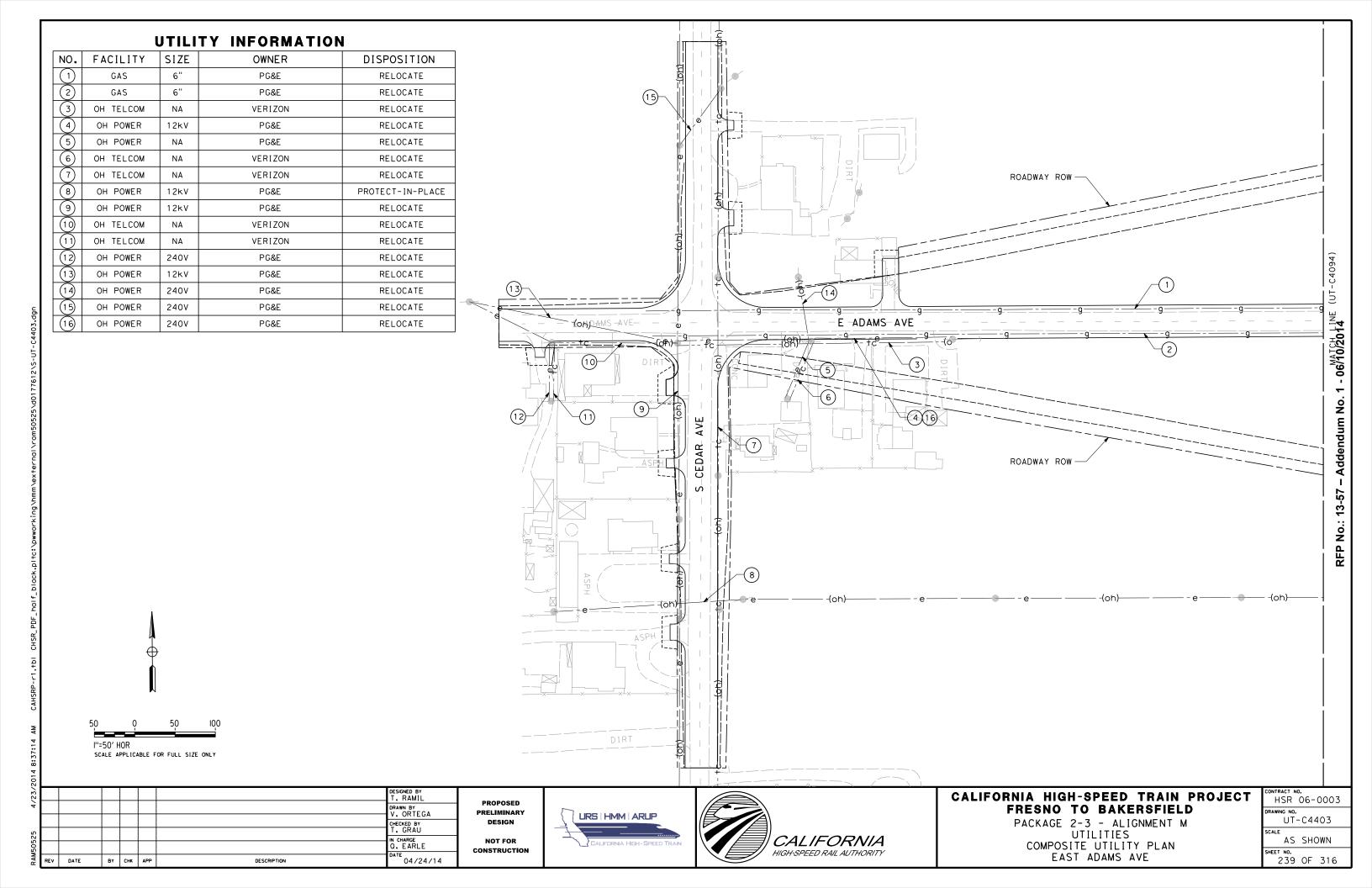
DESCRIPTION

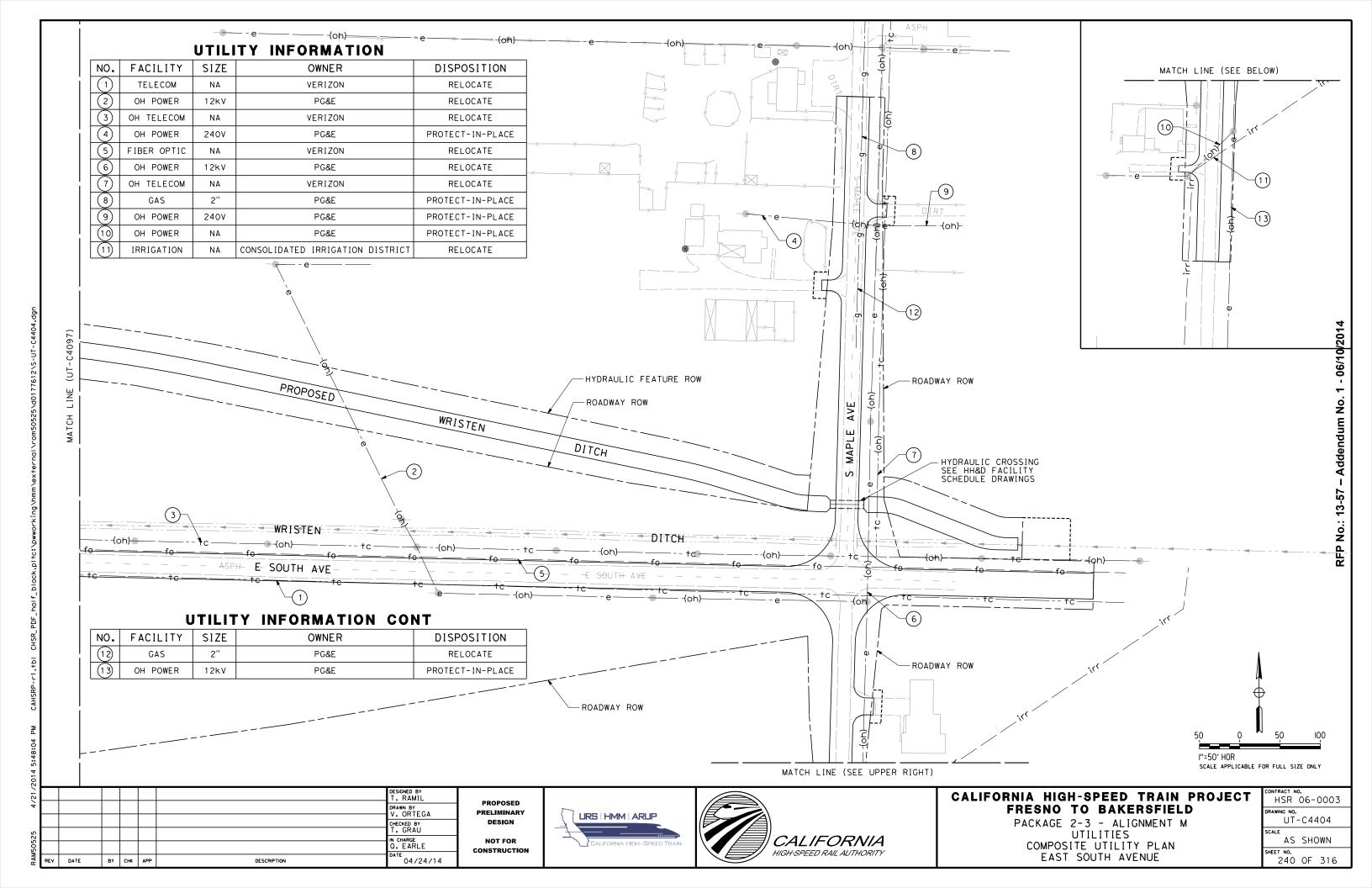
HIGH-SPEED RAIL AUTHORITY

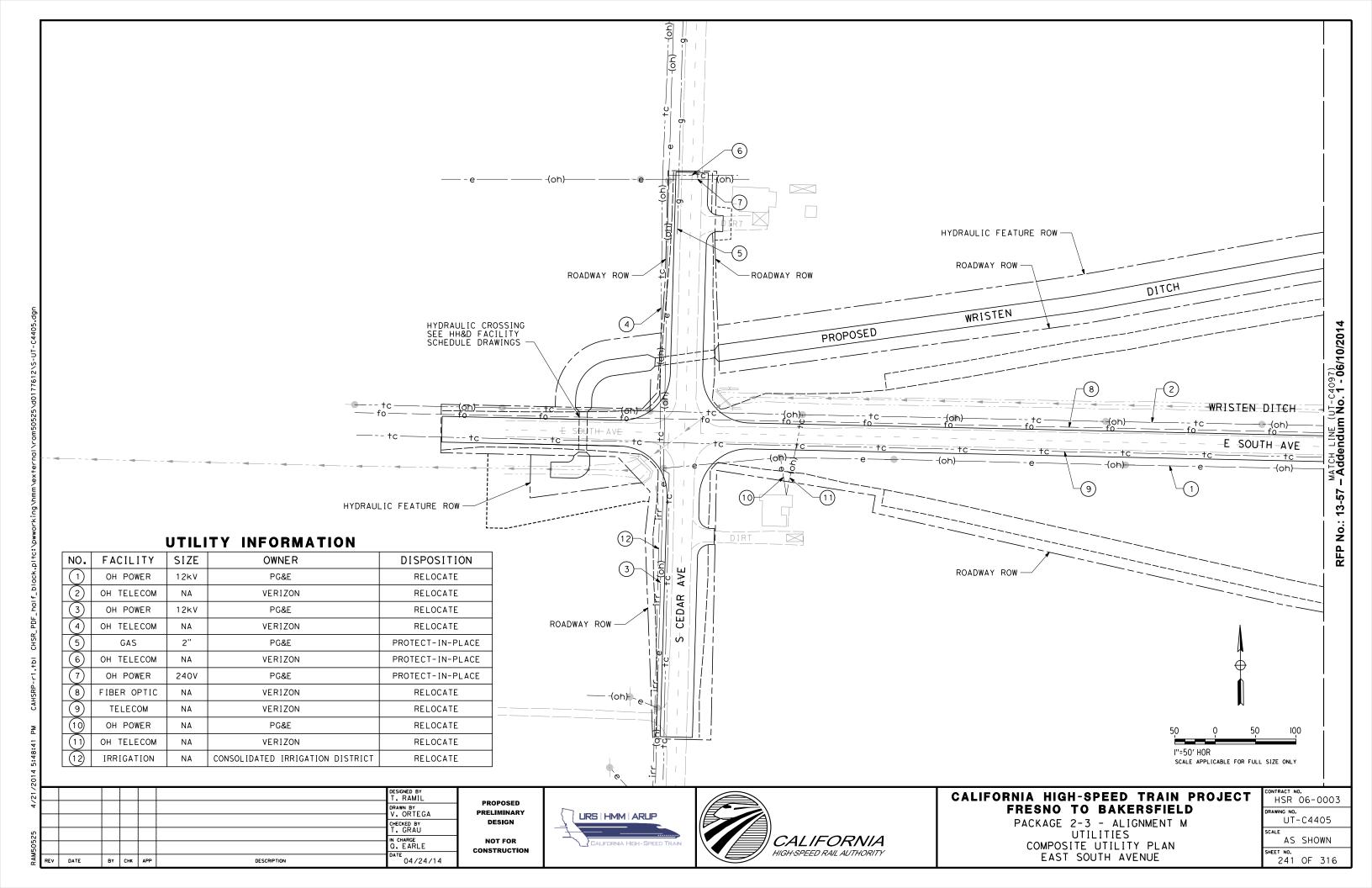
100 PEET NO. 237 OF 316

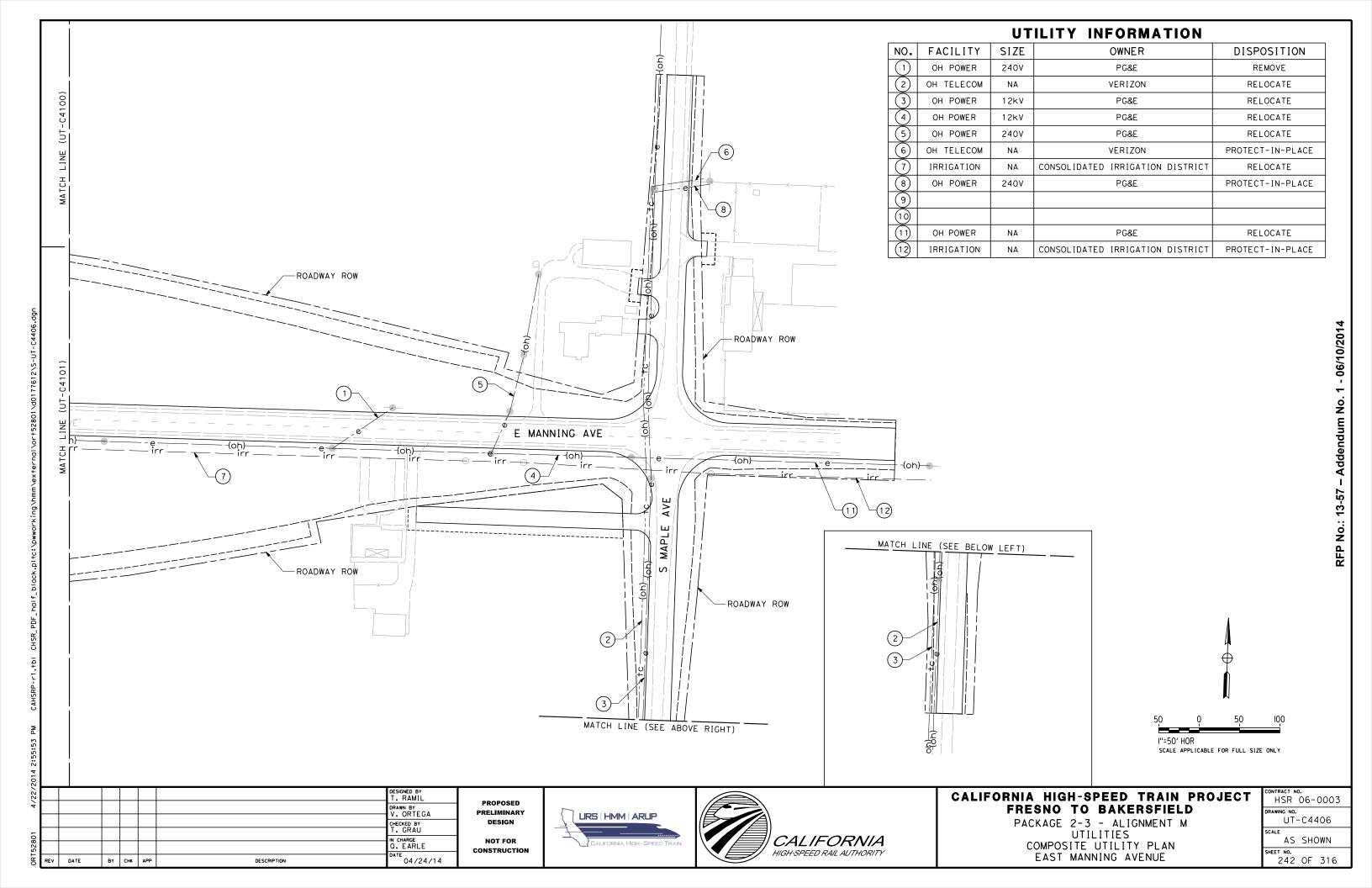
EAST LINCOLN AVE

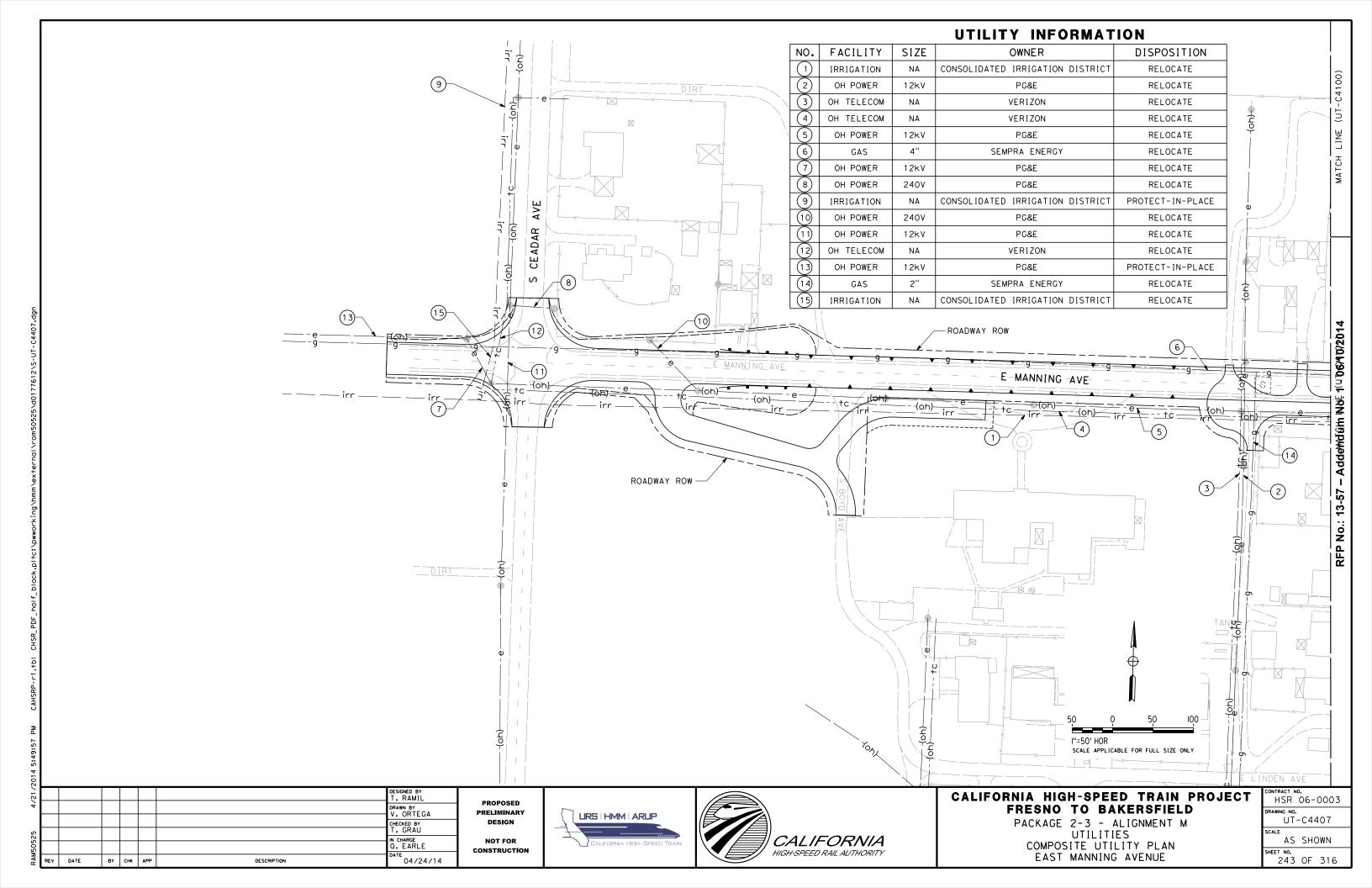


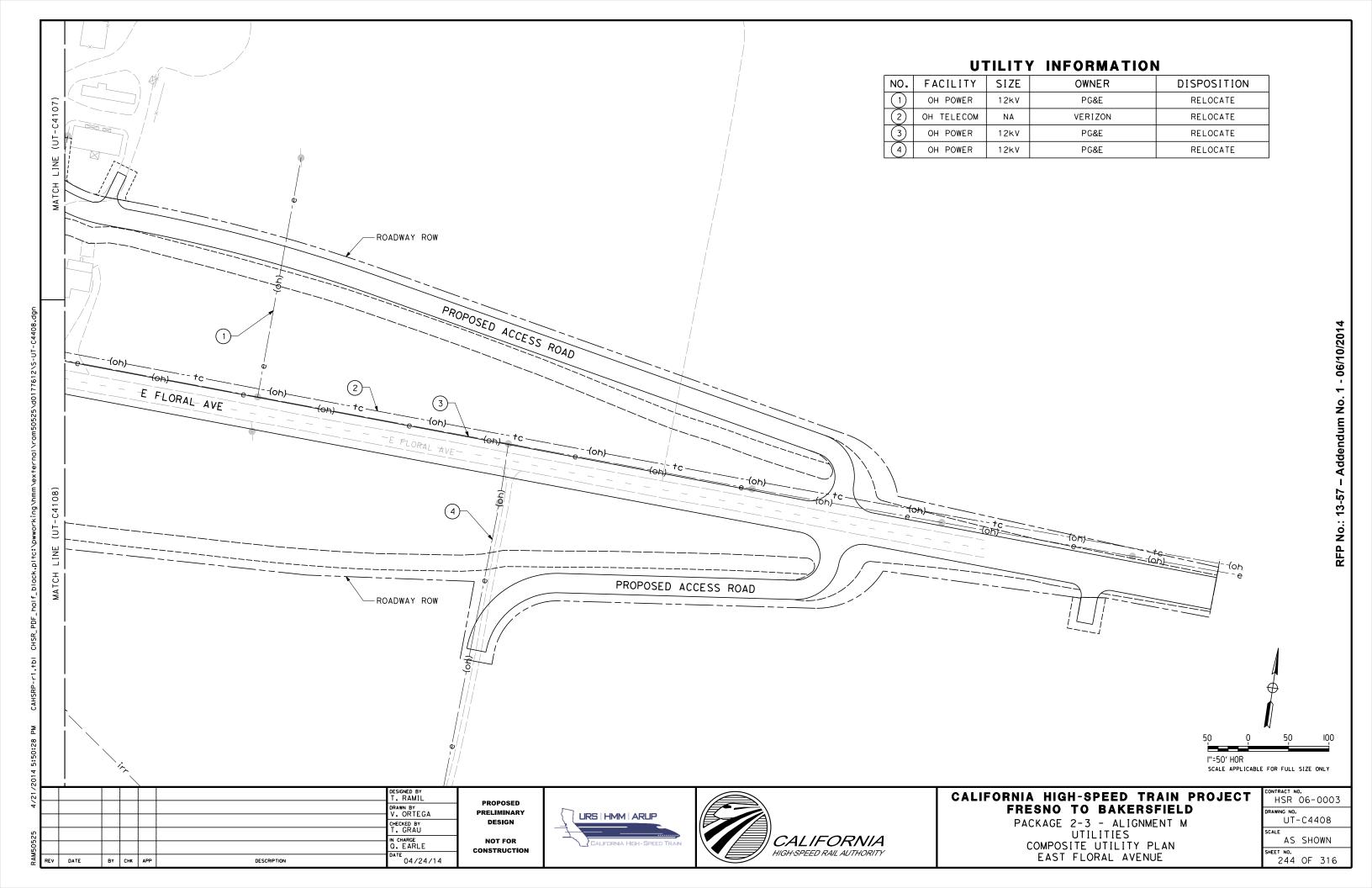


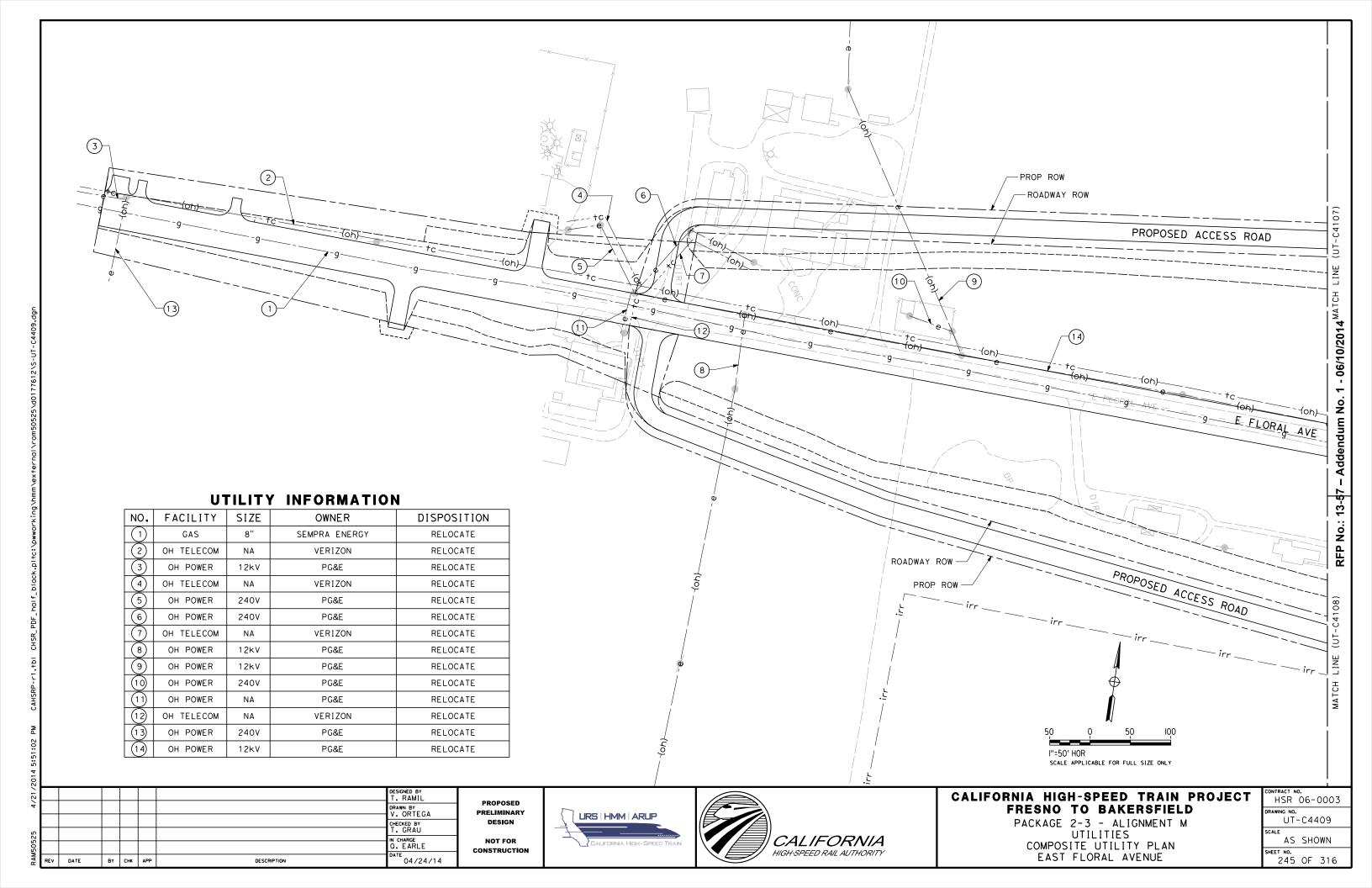


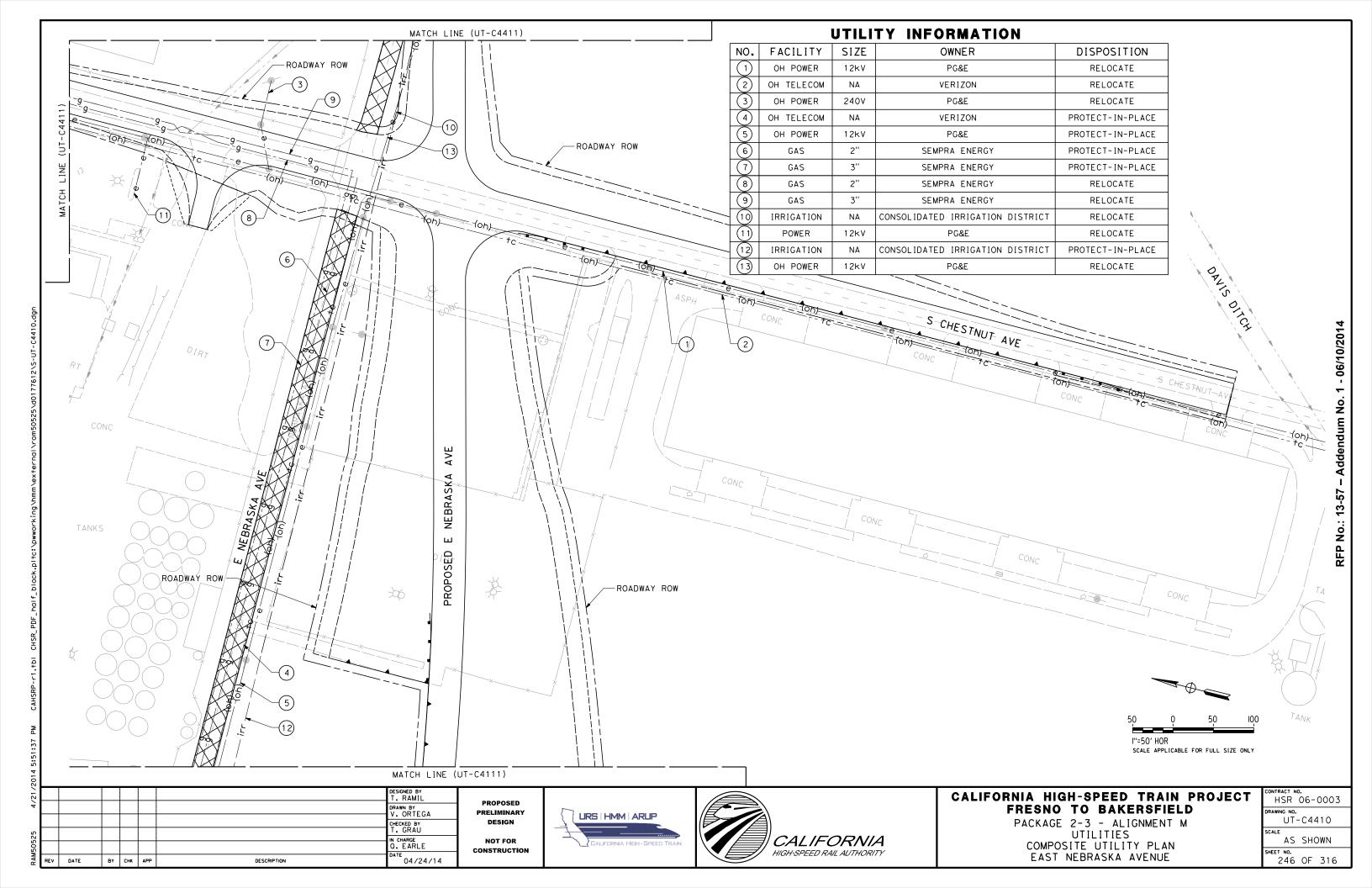


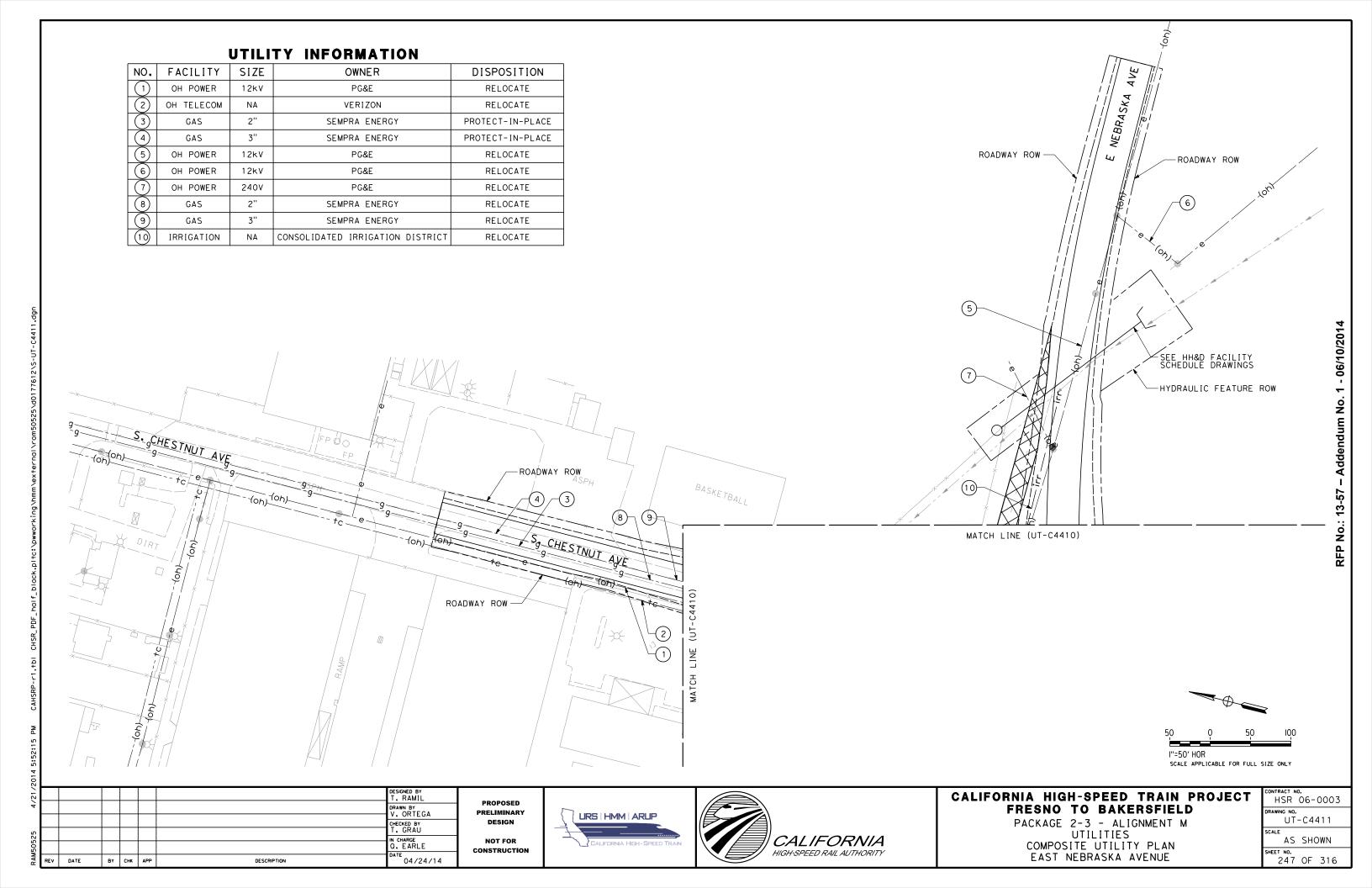


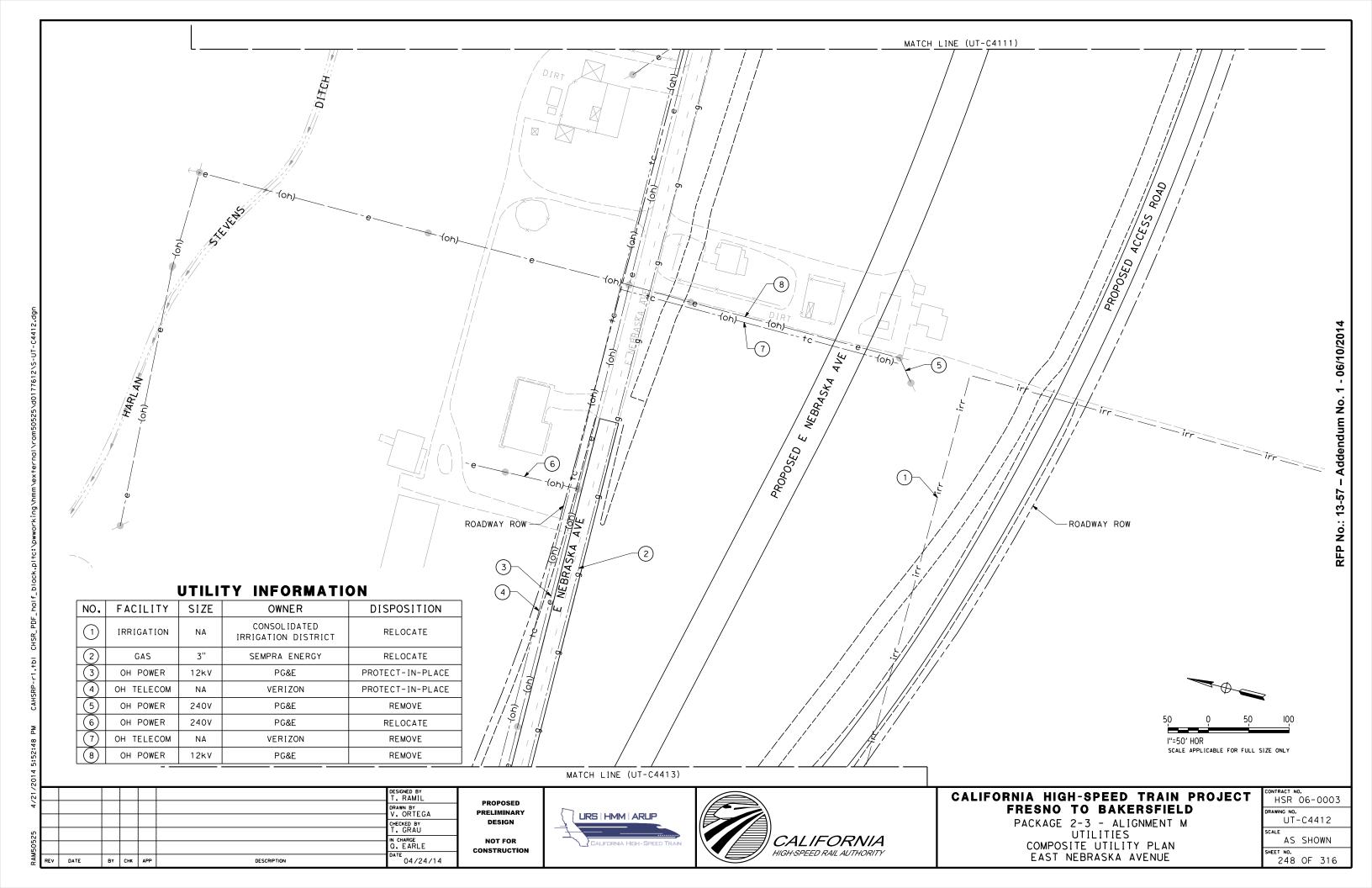


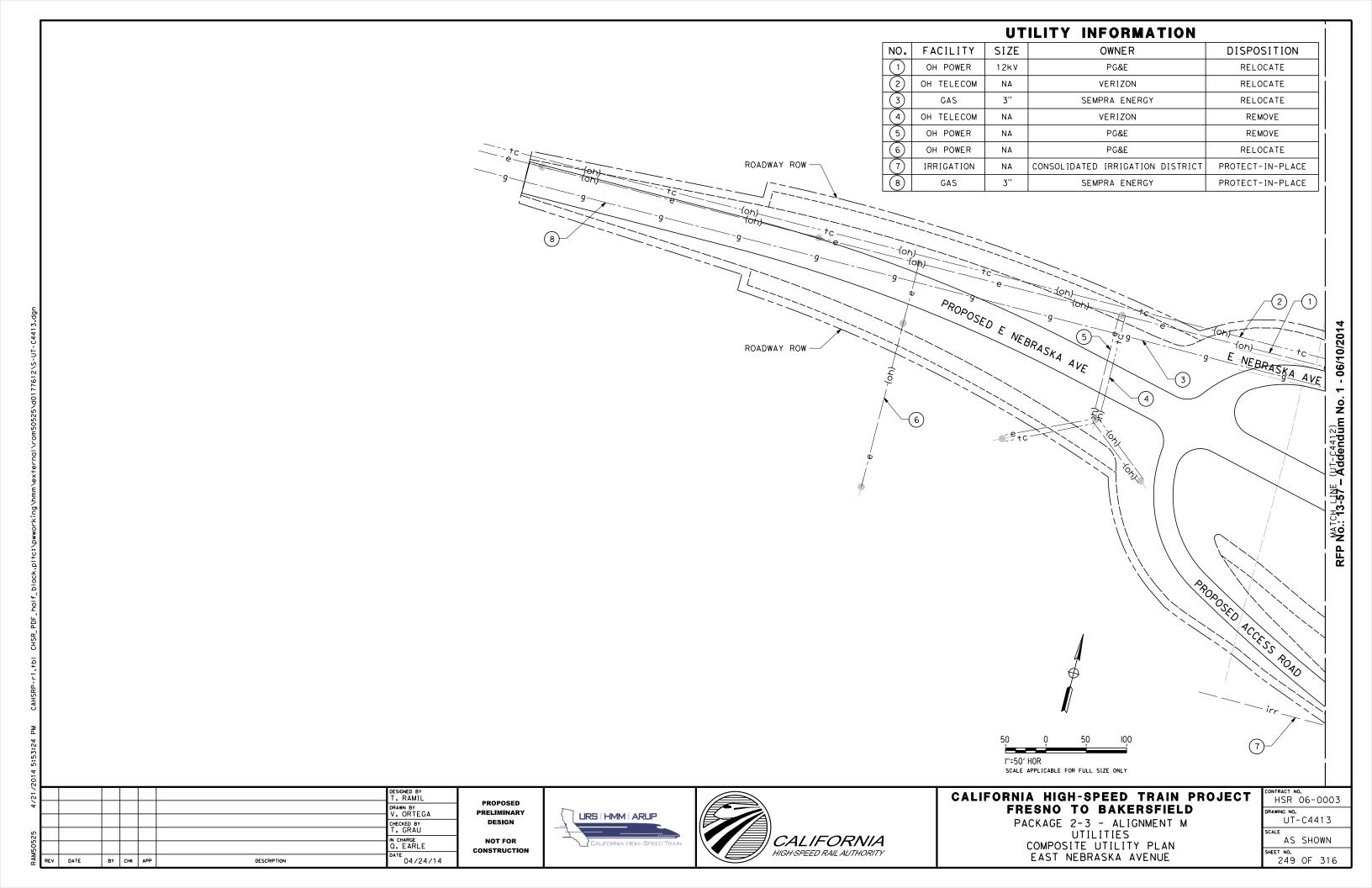


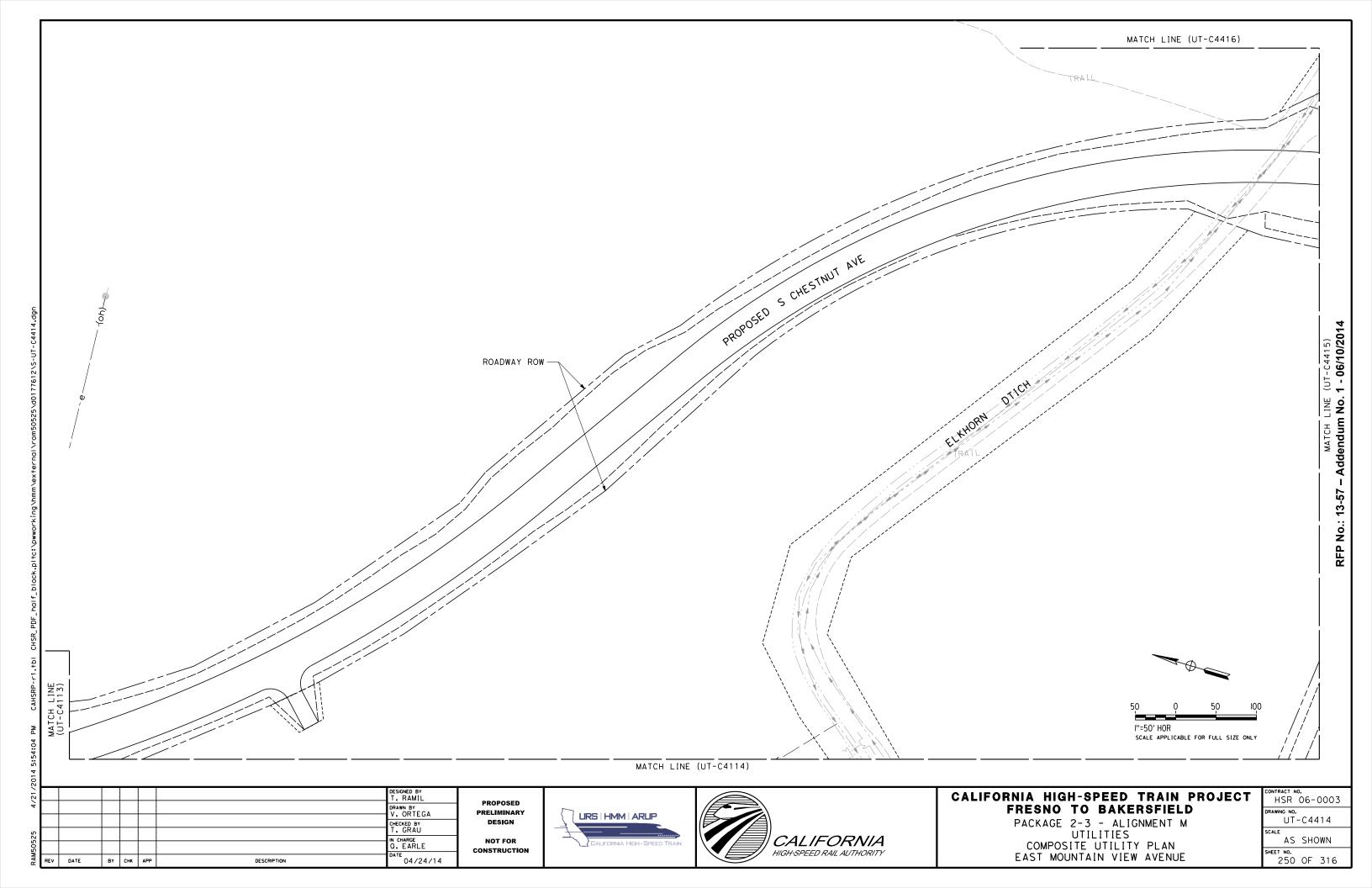


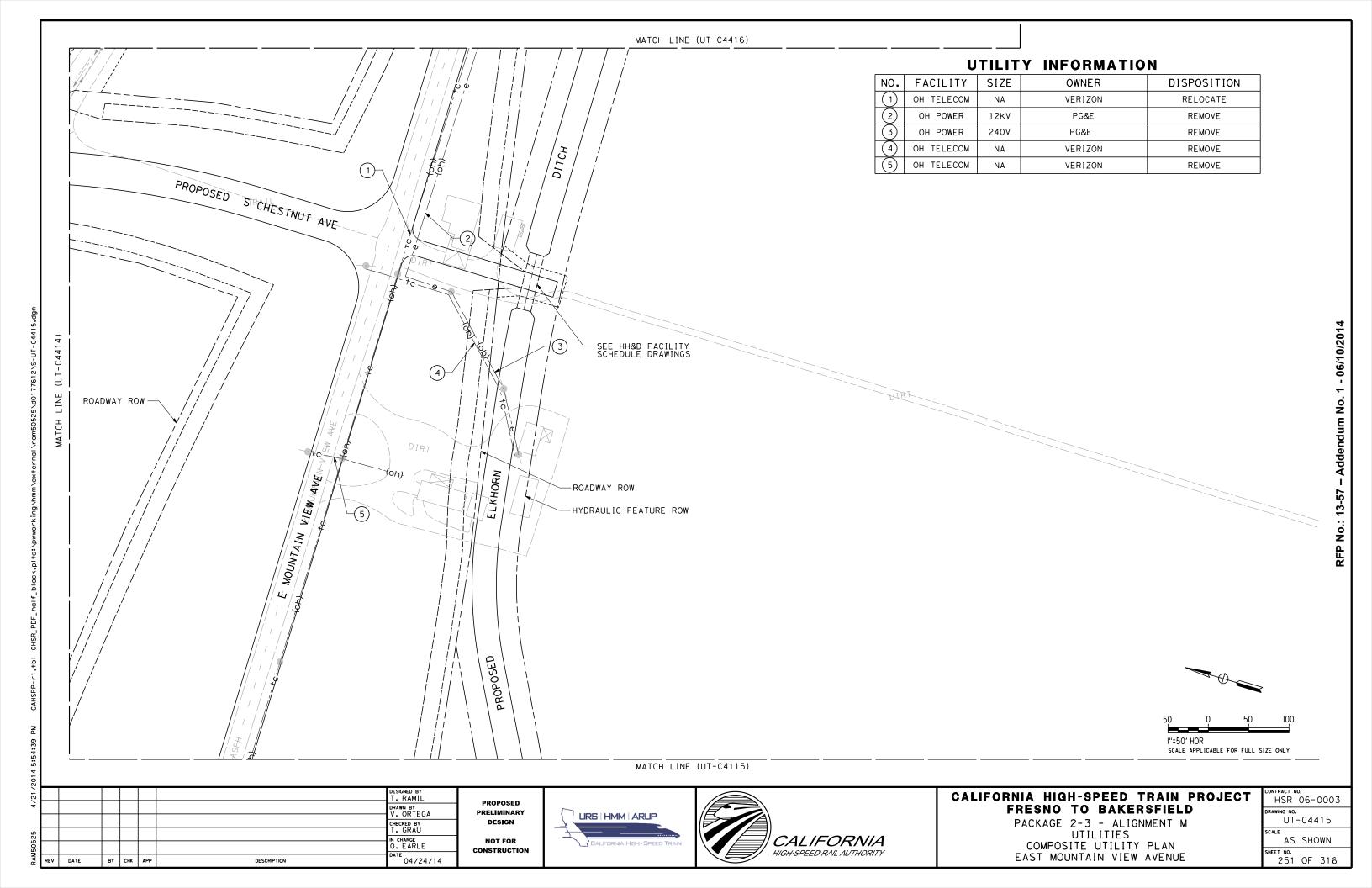


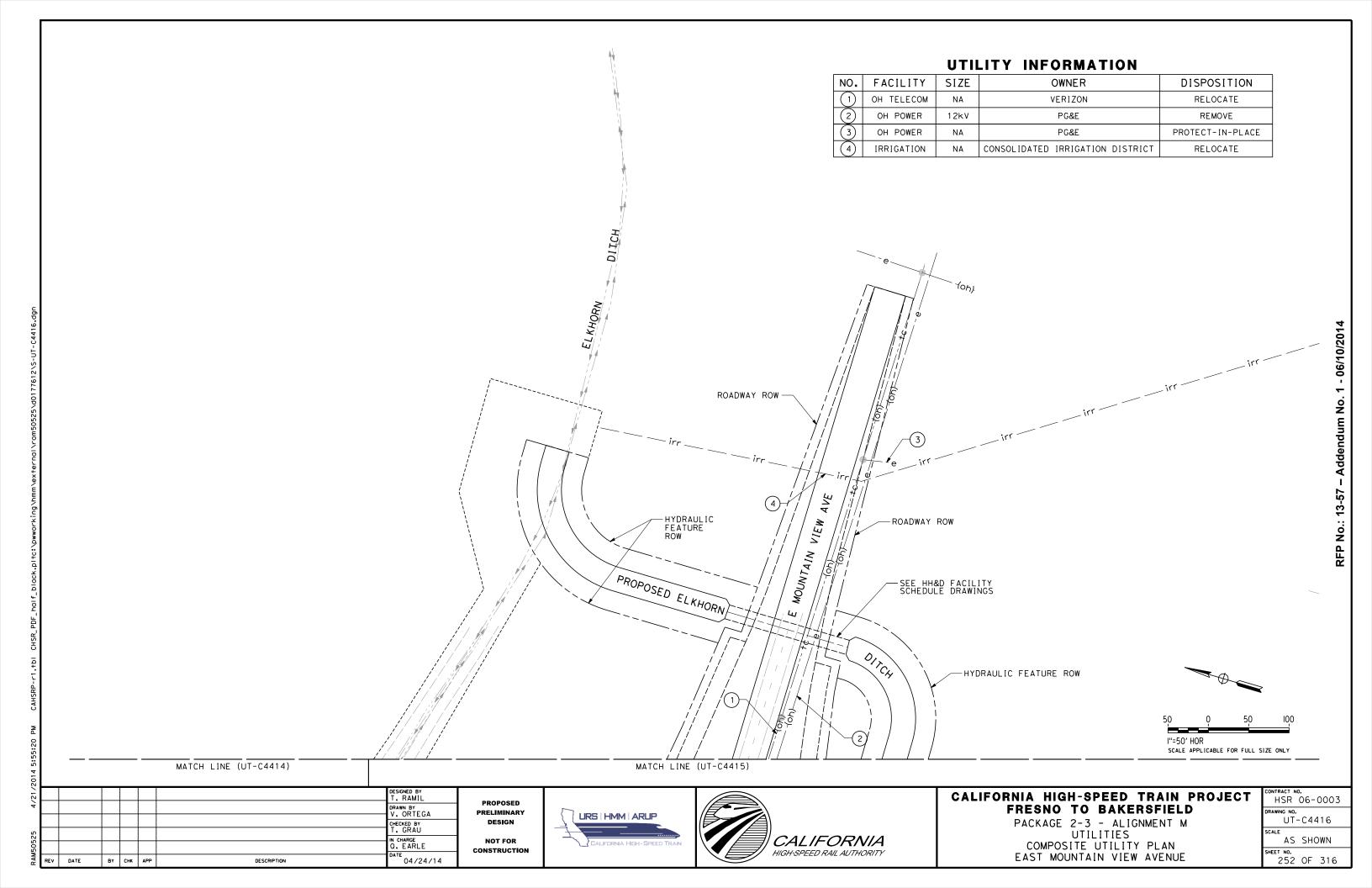


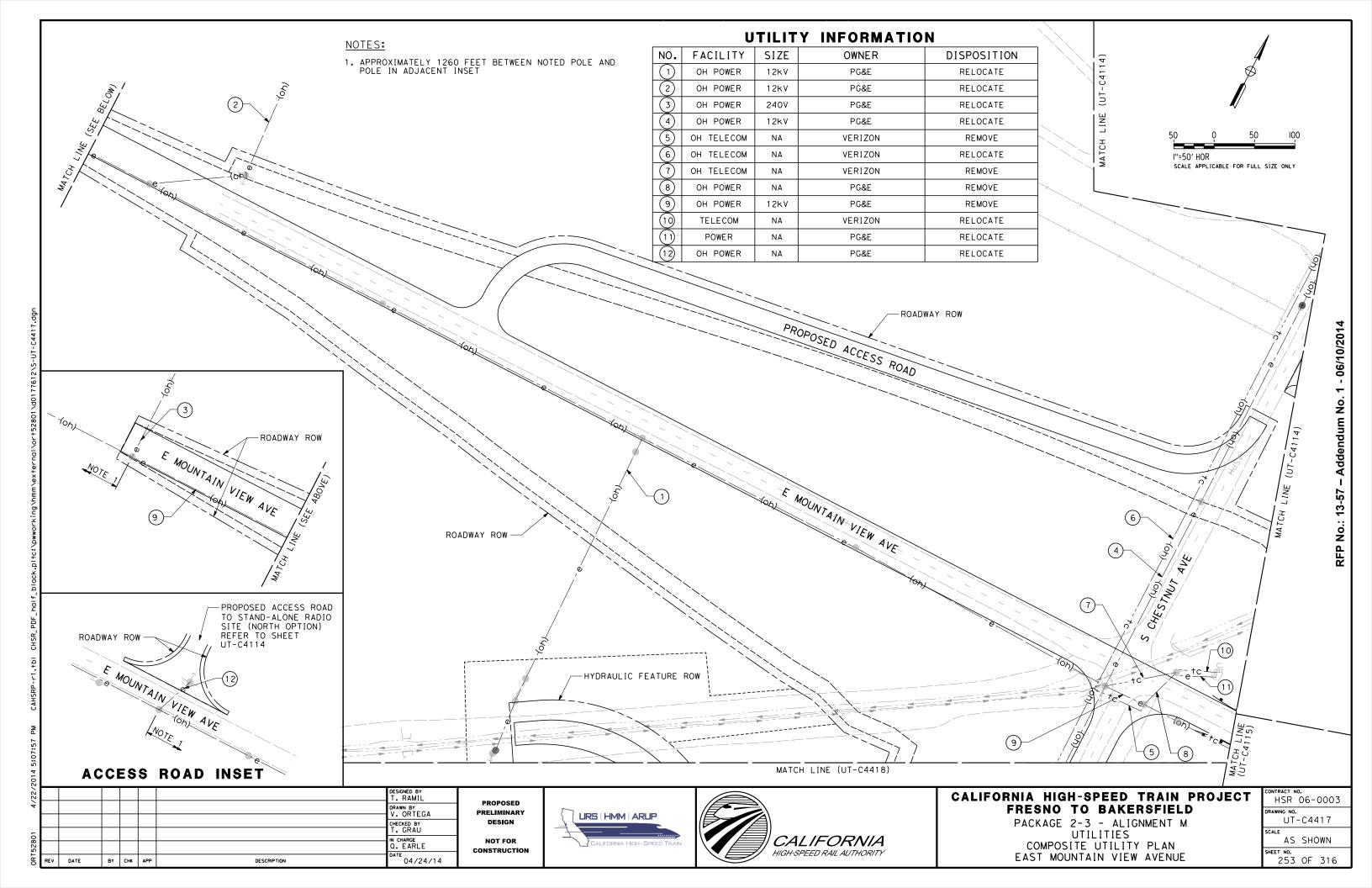


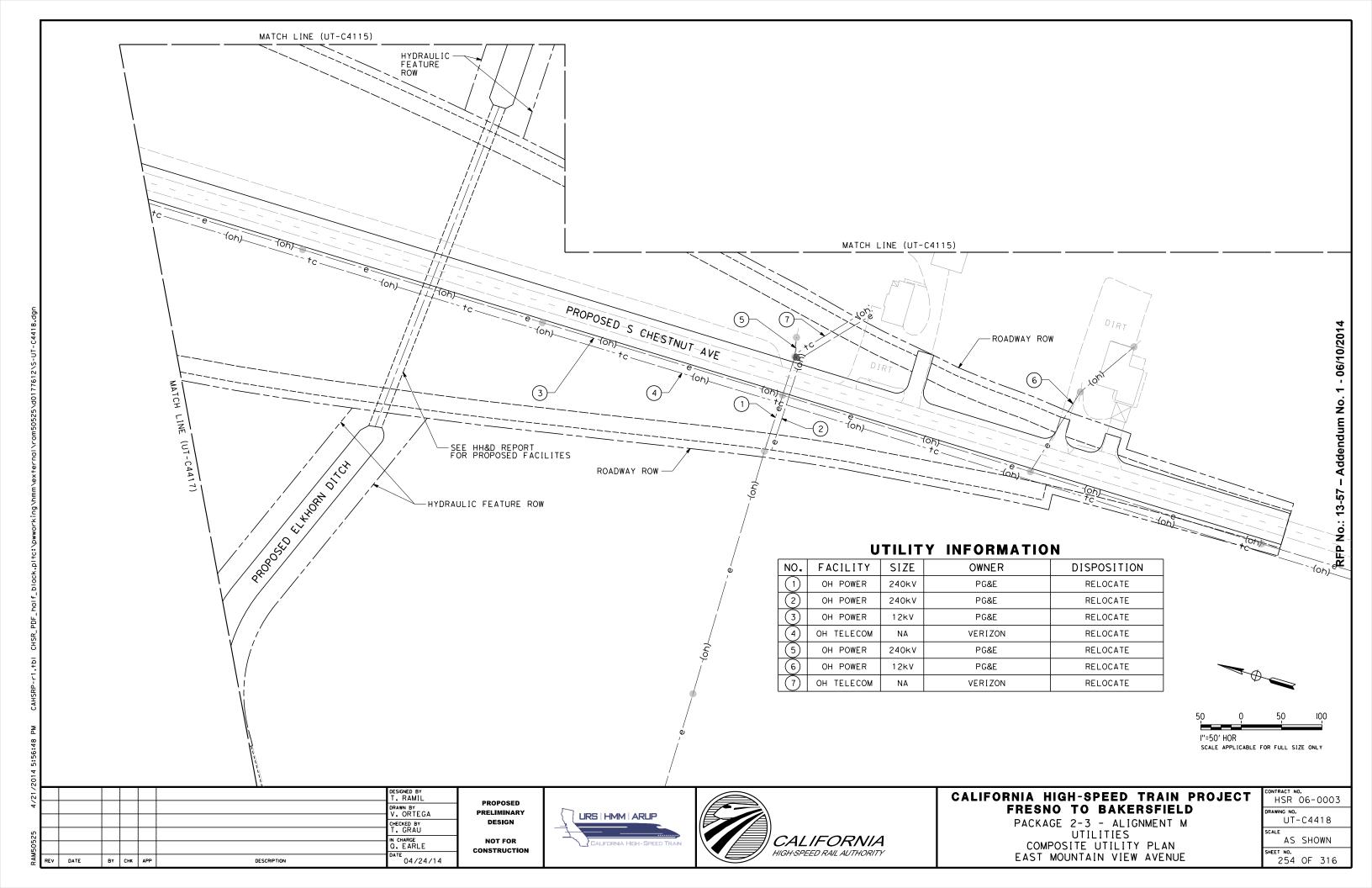


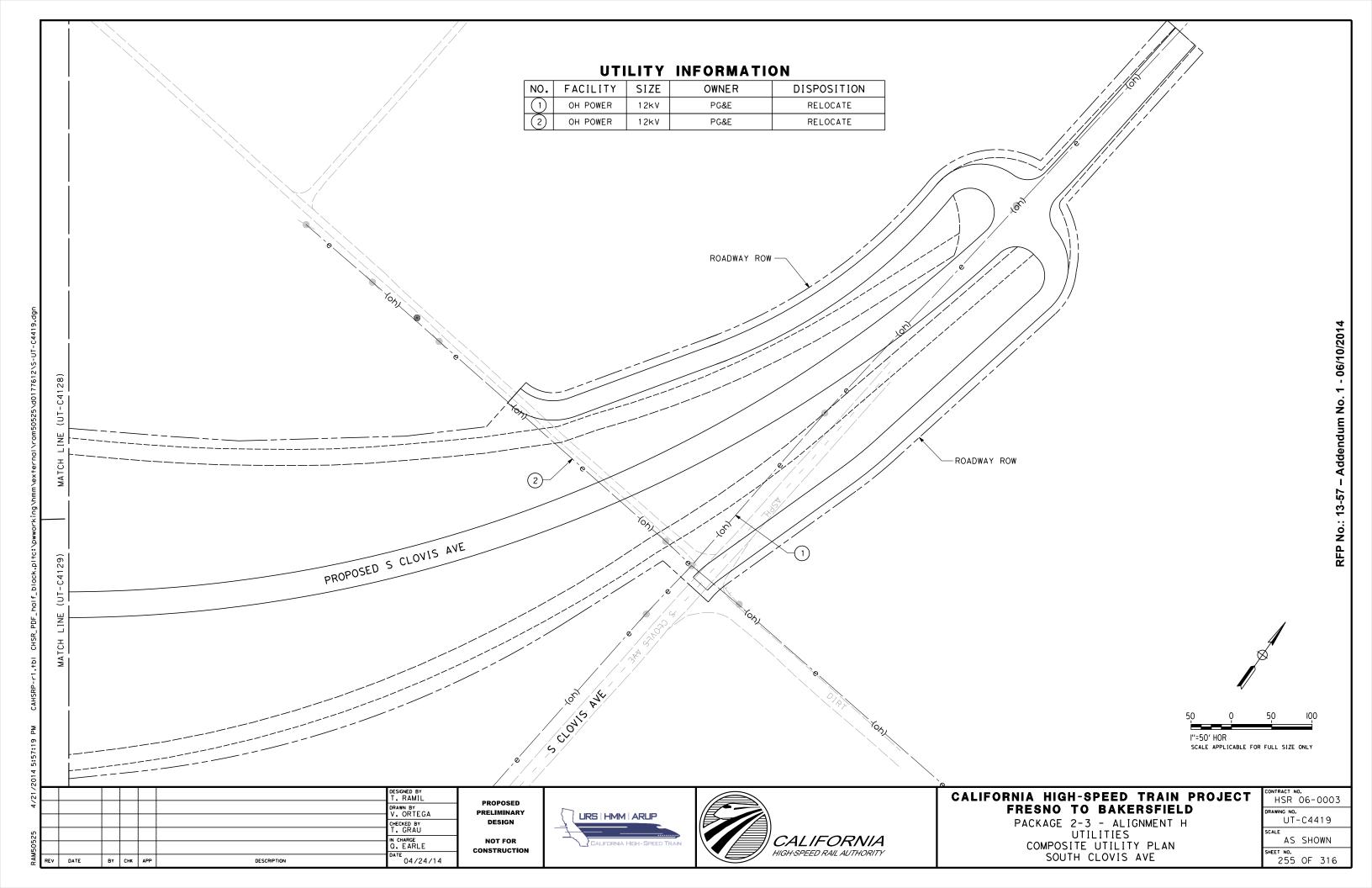


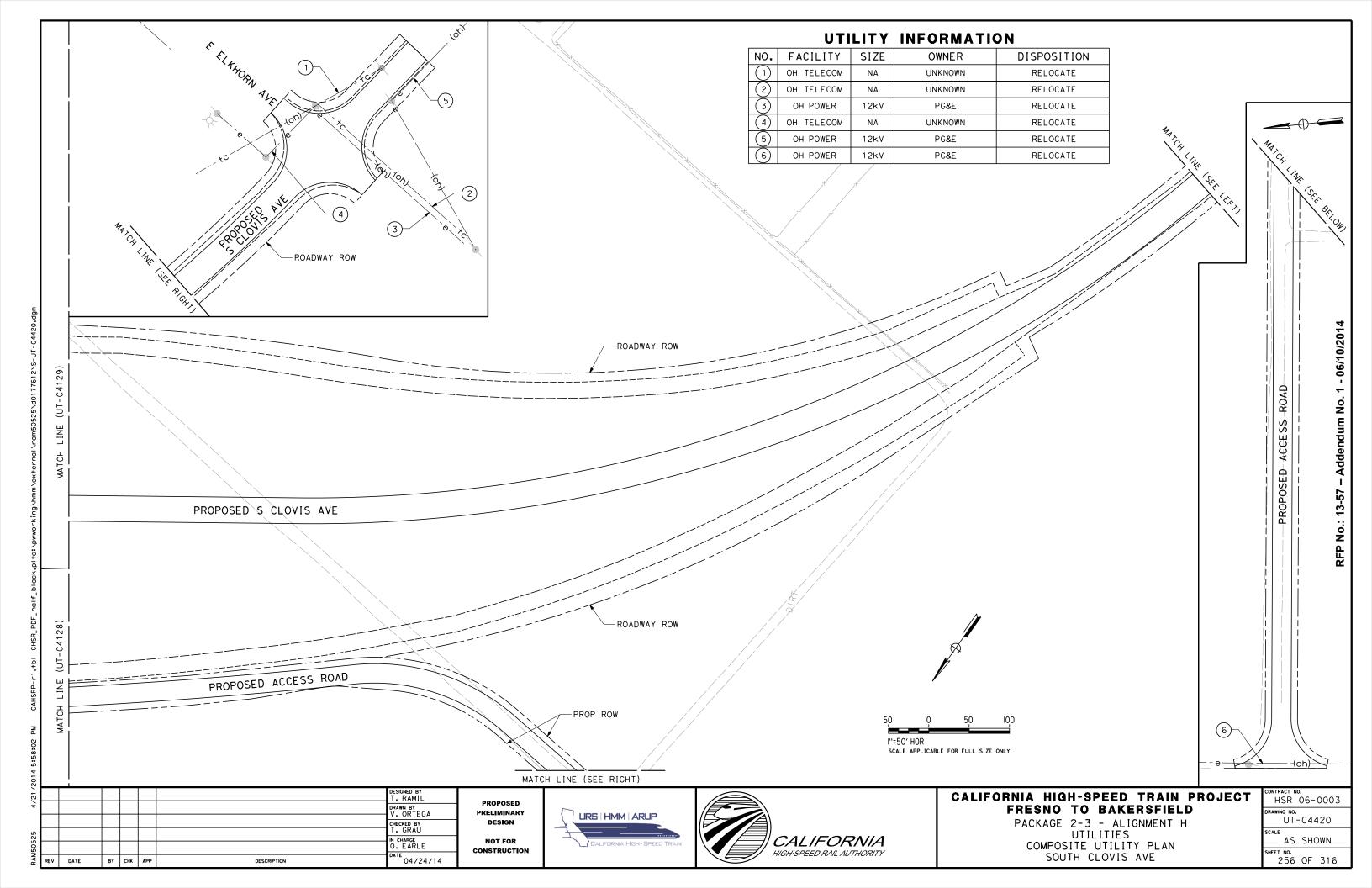


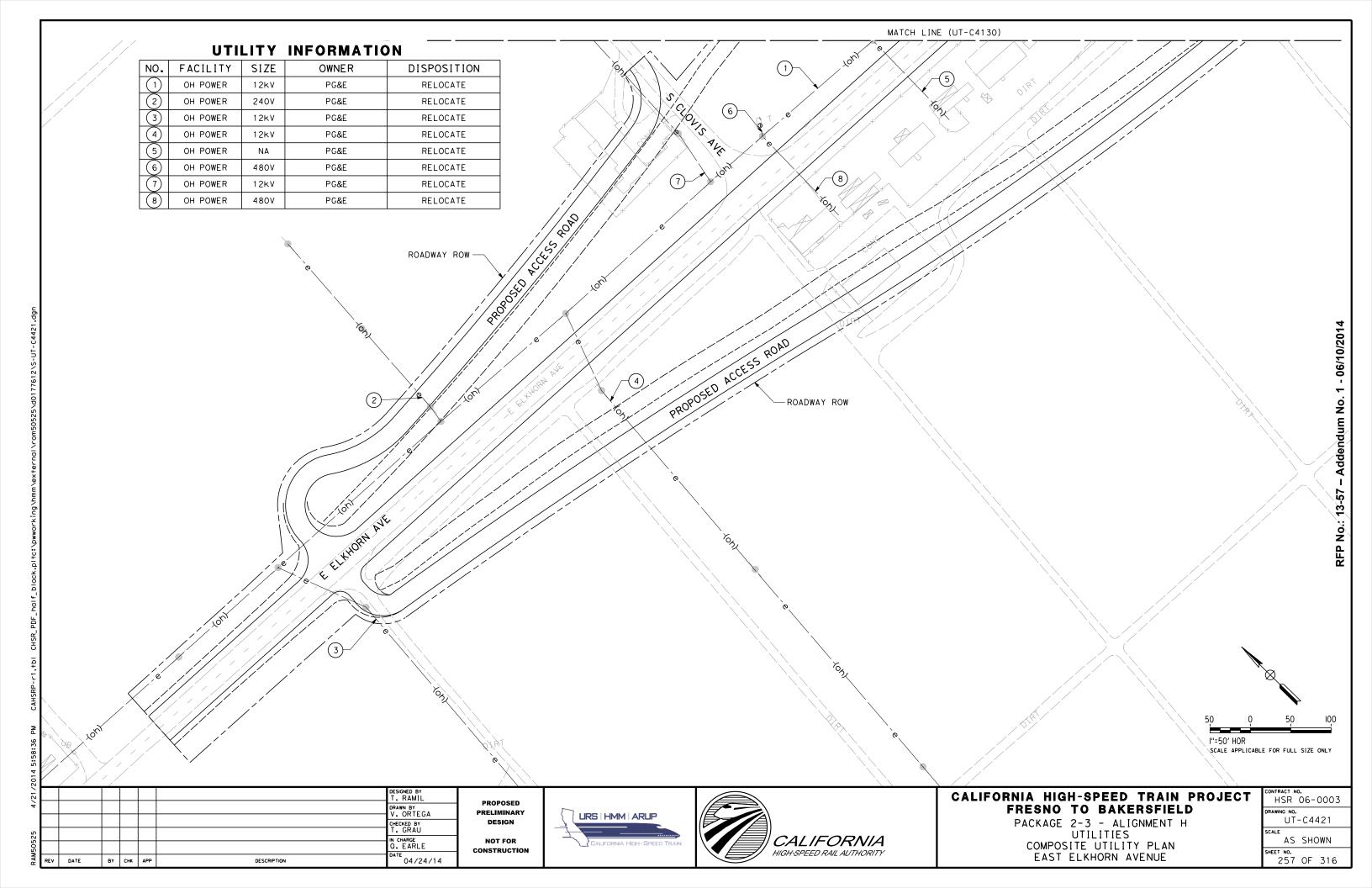


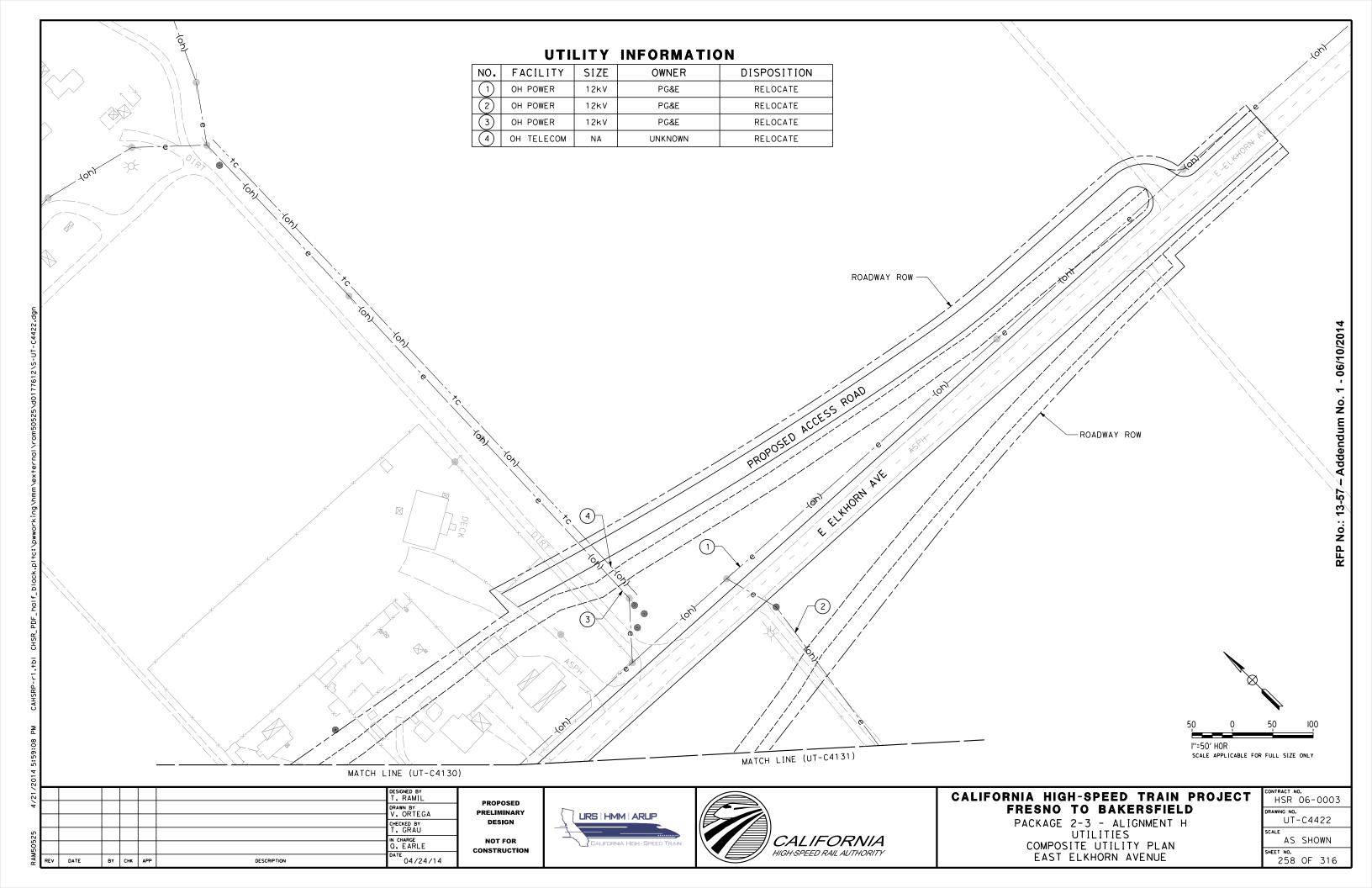


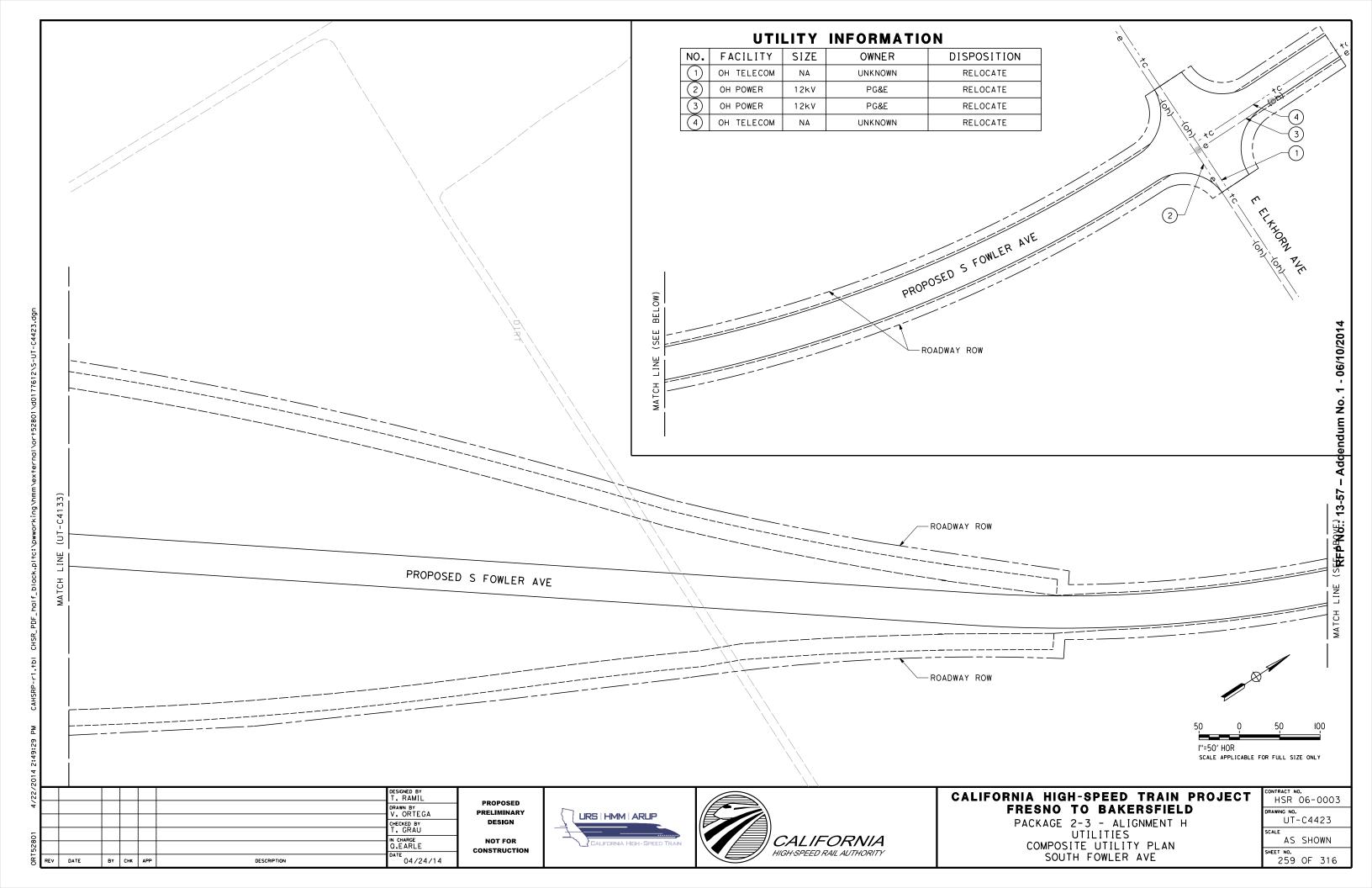


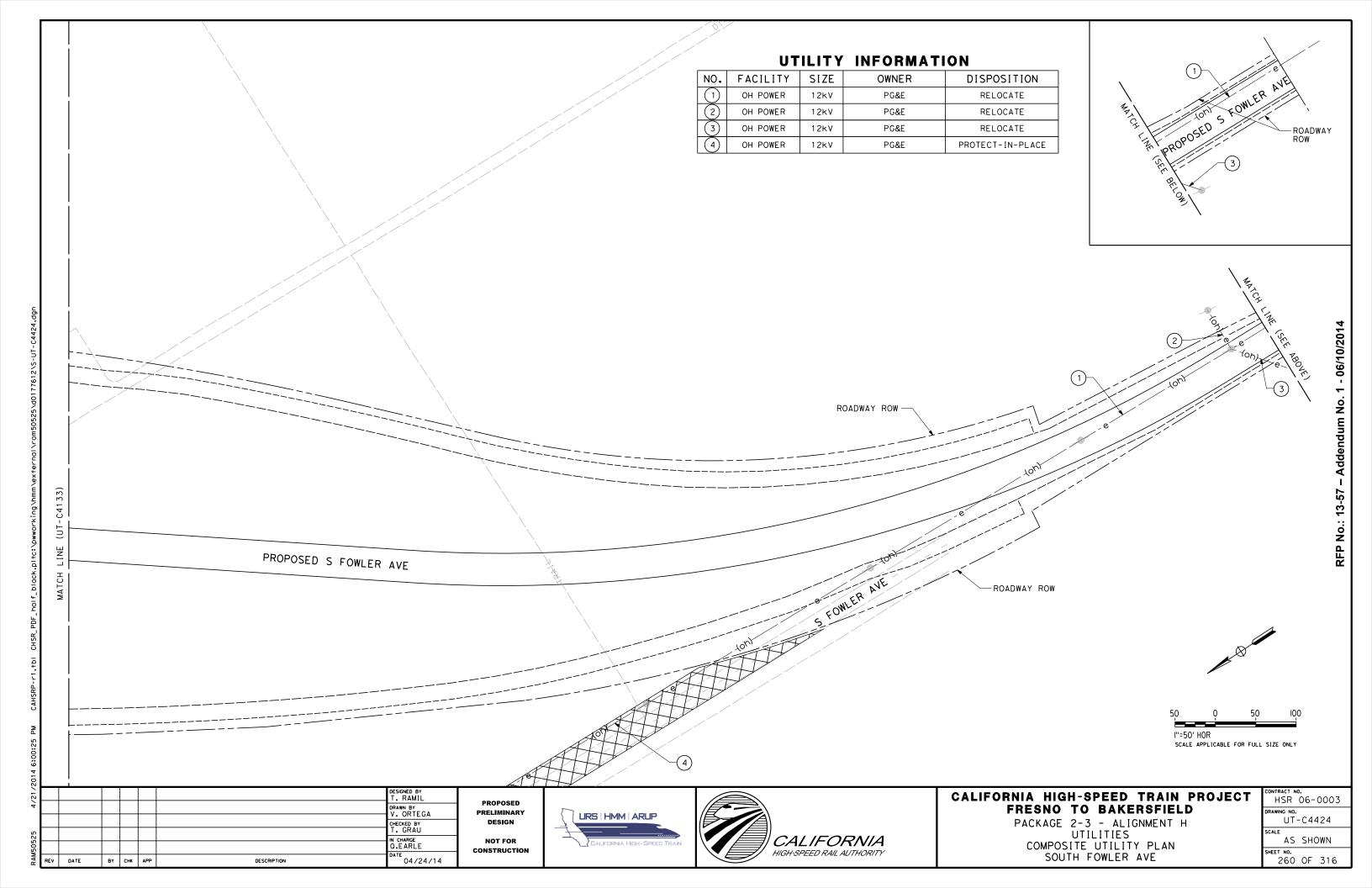


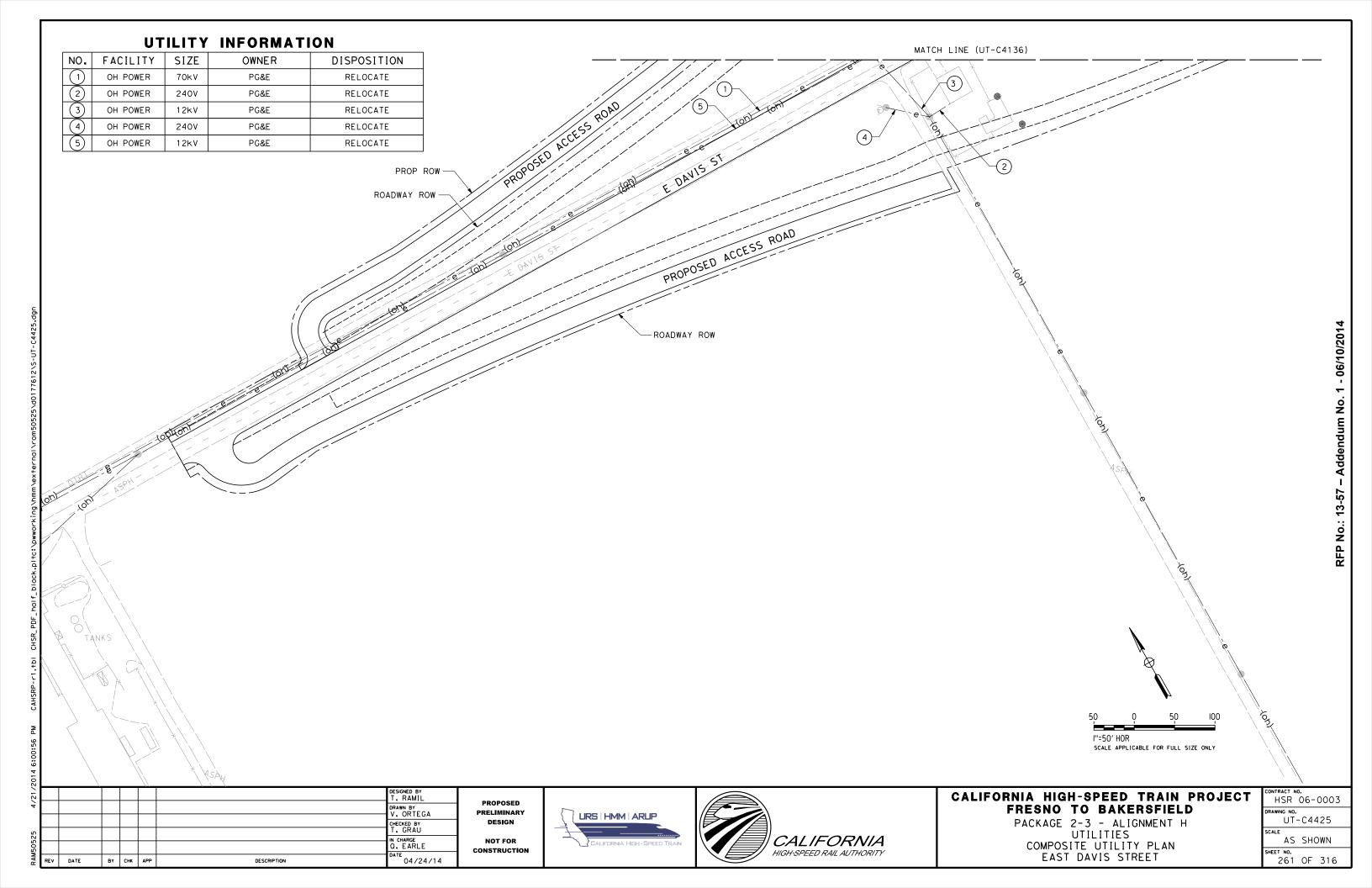


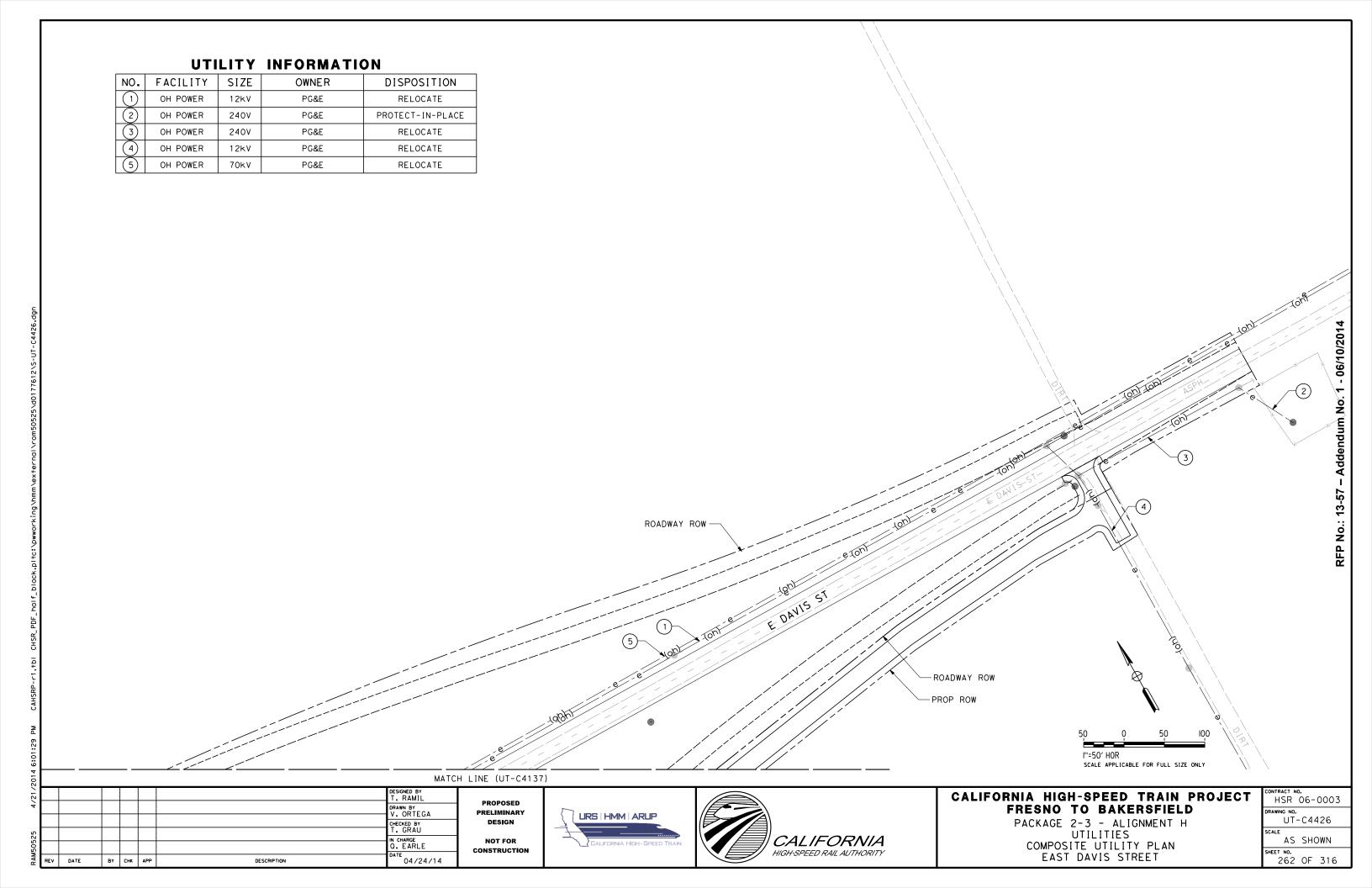






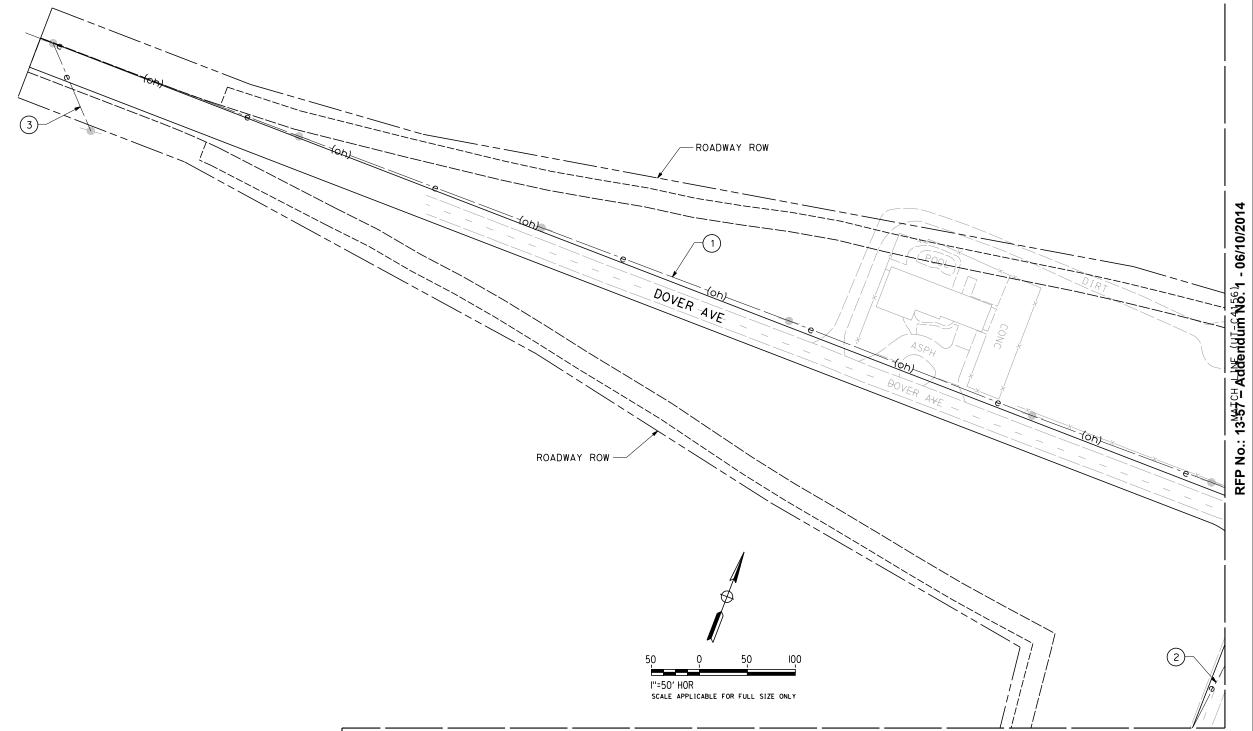






UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
	OH POWER	12kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	RELOCATE
(3)	OH POWER	480V	PG&E	RELOCATE



MATCH LINE (UT-C4429)

201								
/21/							DESIGNED BY T. RAMIL	
4							DRAWN BY V. ORTEGA	PROPOSED PRELIMINARY
3							CHECKED BY	DESIGN
53823							IN CHARGE Q. EARLE	NOT FOR CONSTRUCTION
JOS	REV	DATE	BY	СНК	APP	DESCRIPTION	04/24/14	

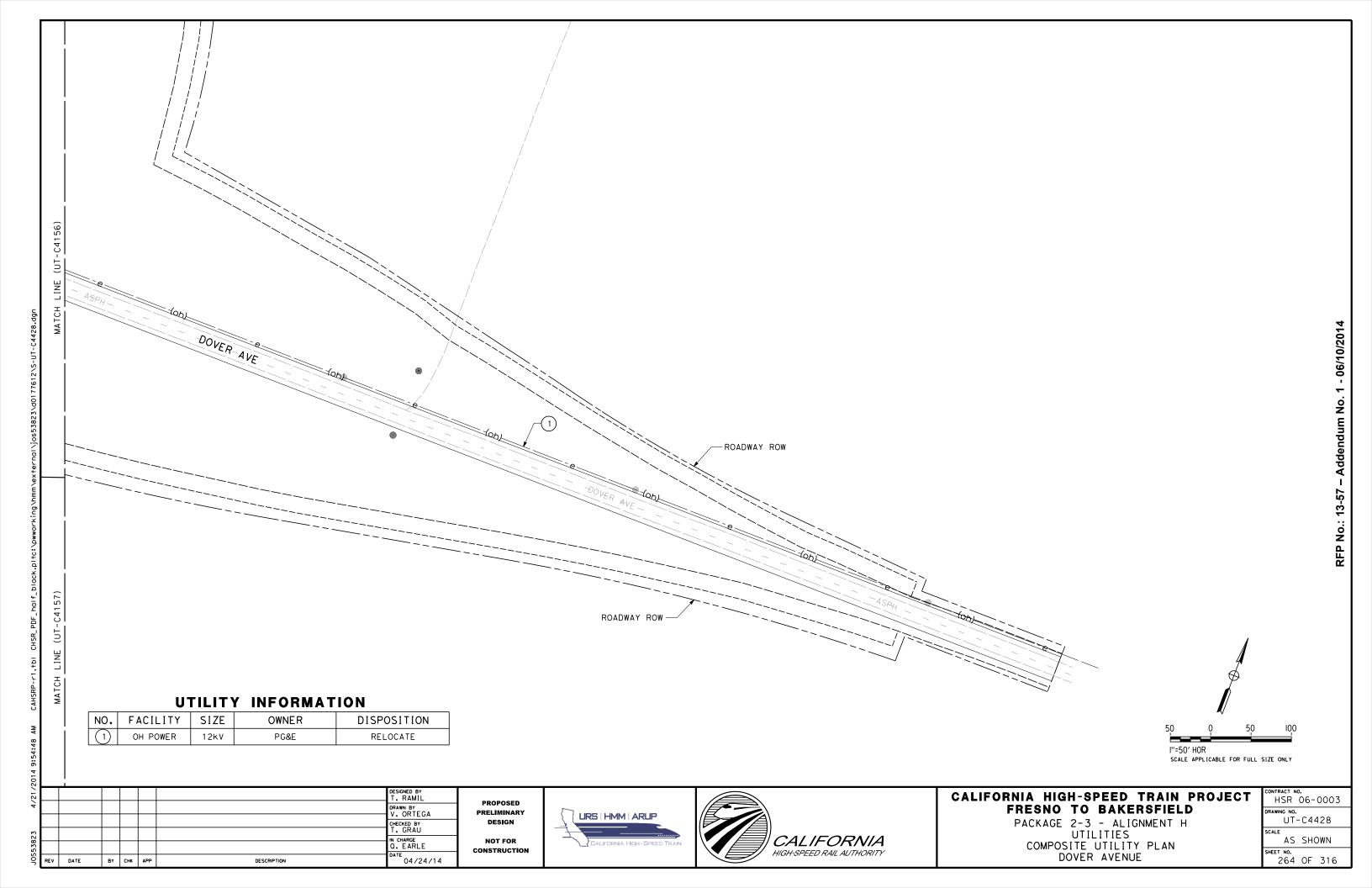


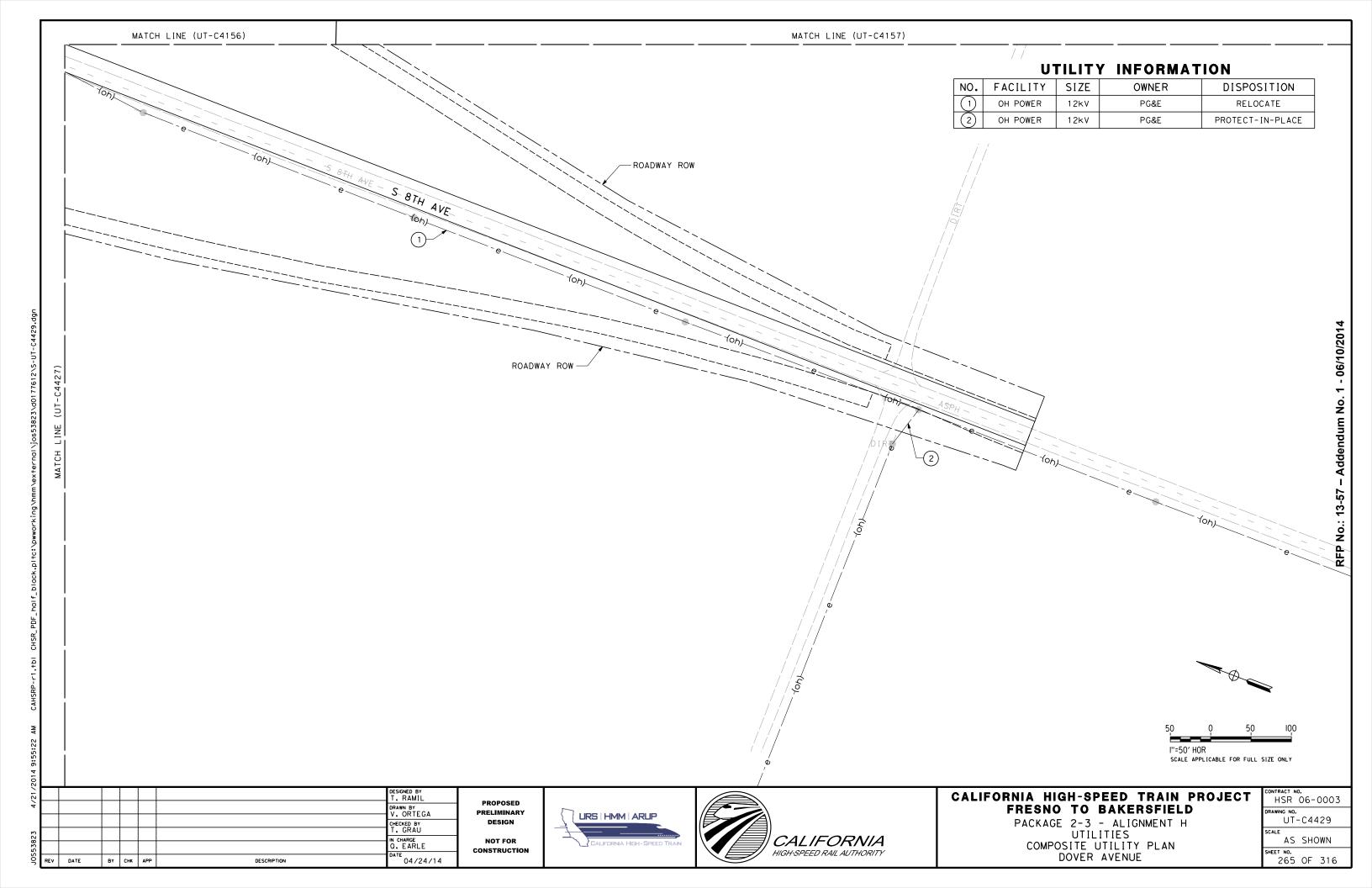


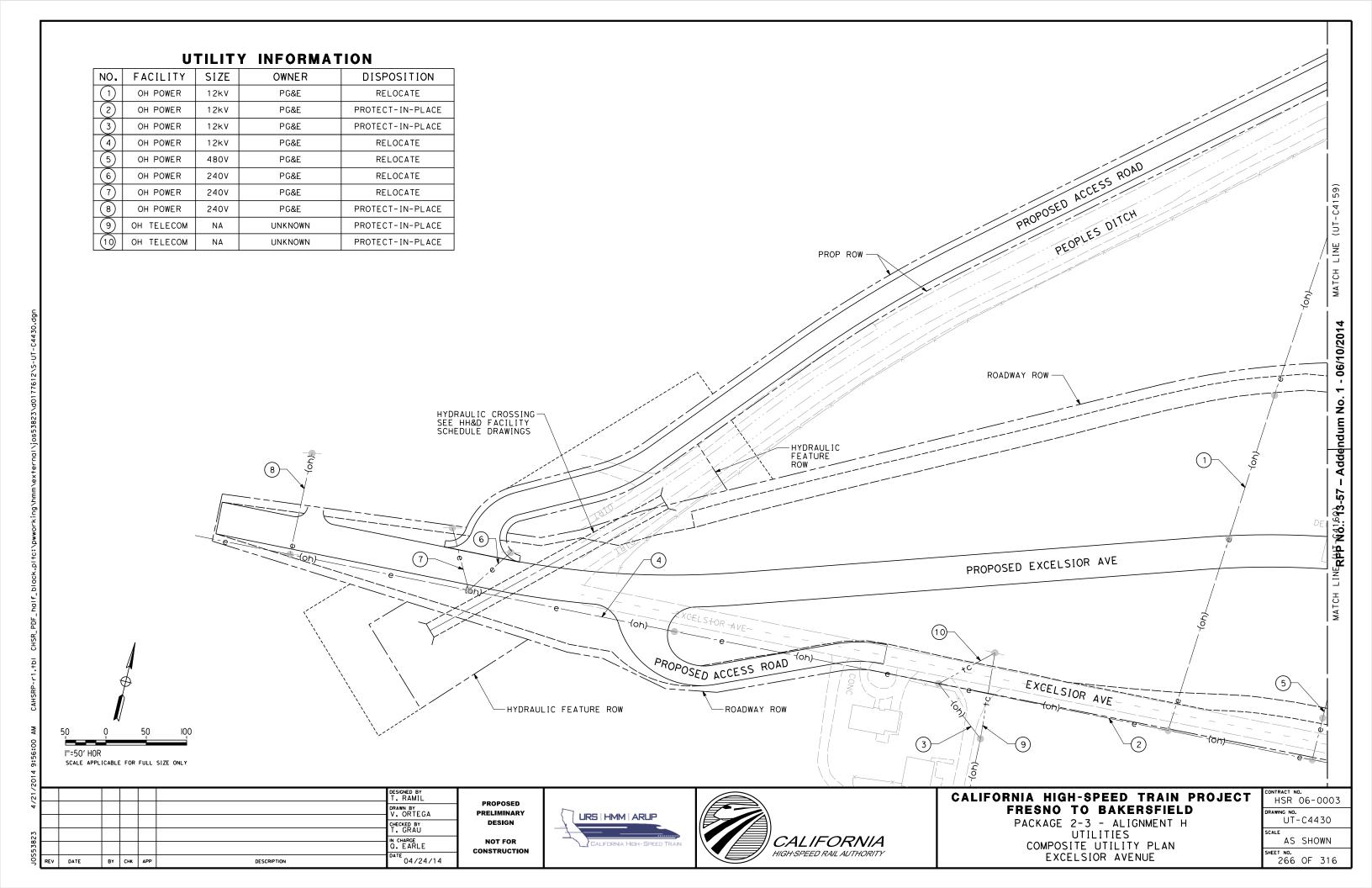
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

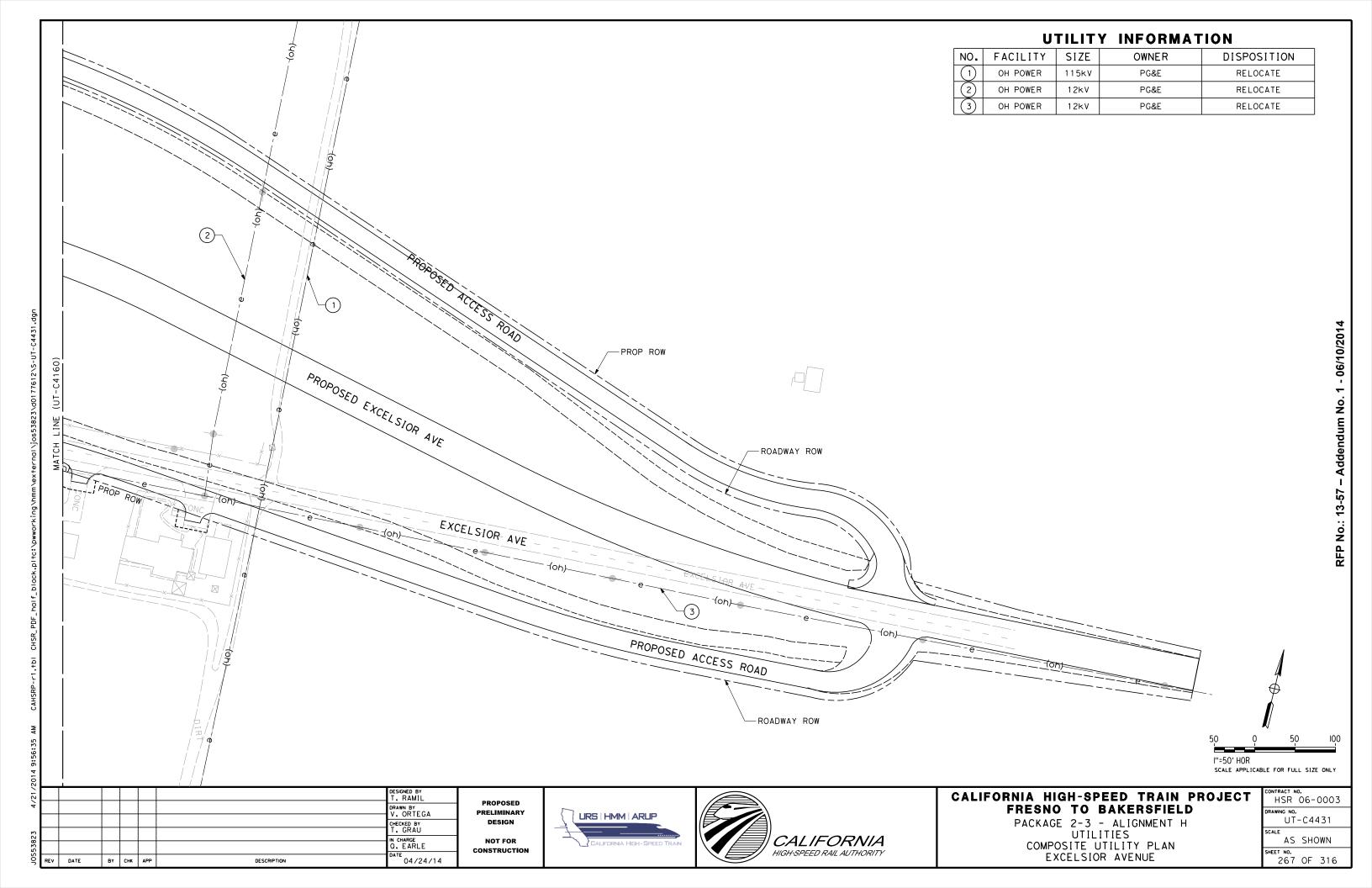
PACKAGE 2-3 - ALIGNMENT H UTILITIES COMPOSITE UTILITY PLAN DOVER AVENUE

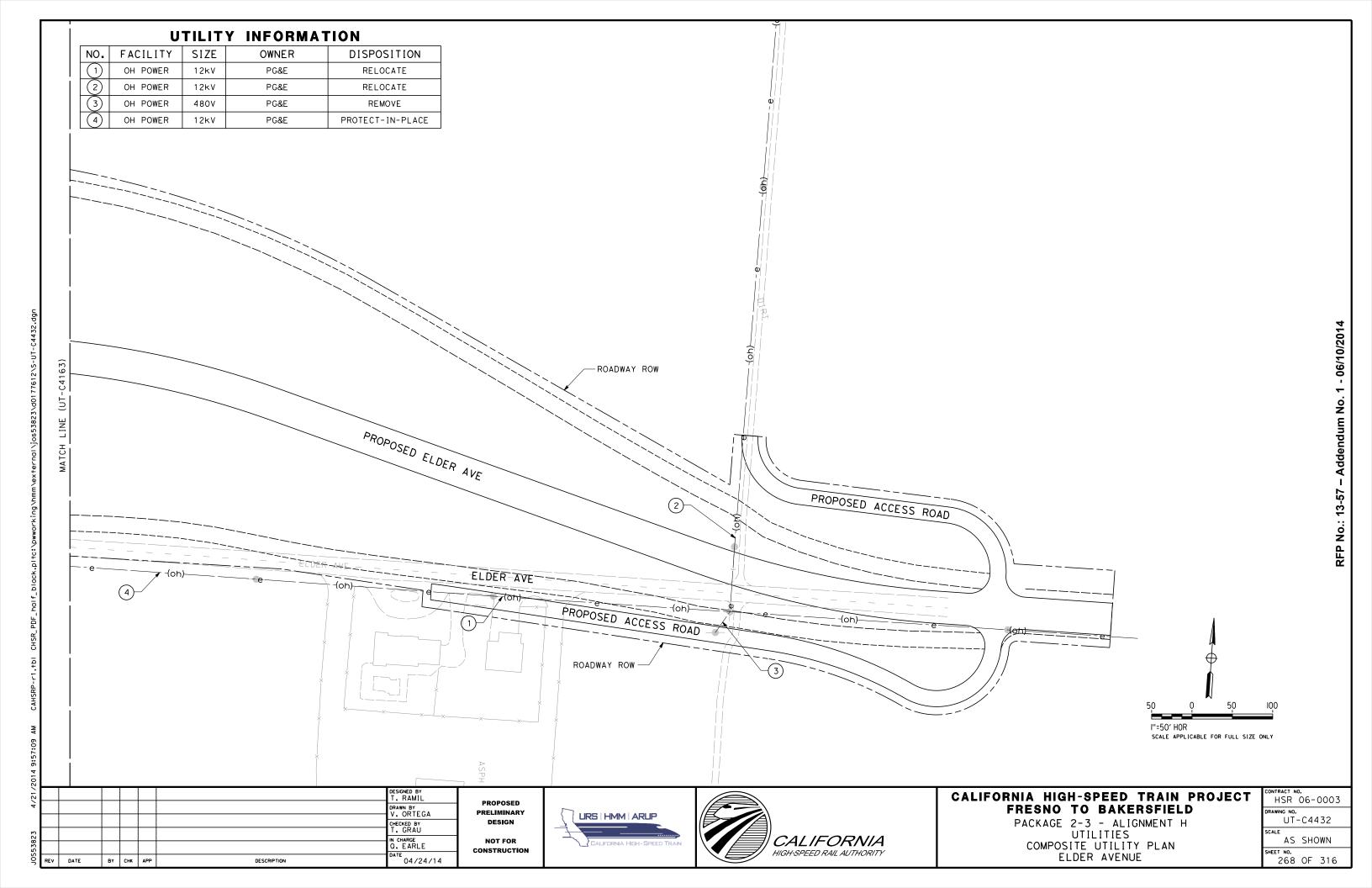
CONTRACT NO. HSR 06-0003				
DRAWING NO.				
UT-C4427				
SCALE				
AS	SHOWN			
SHEET NO.				
263	OF 316			

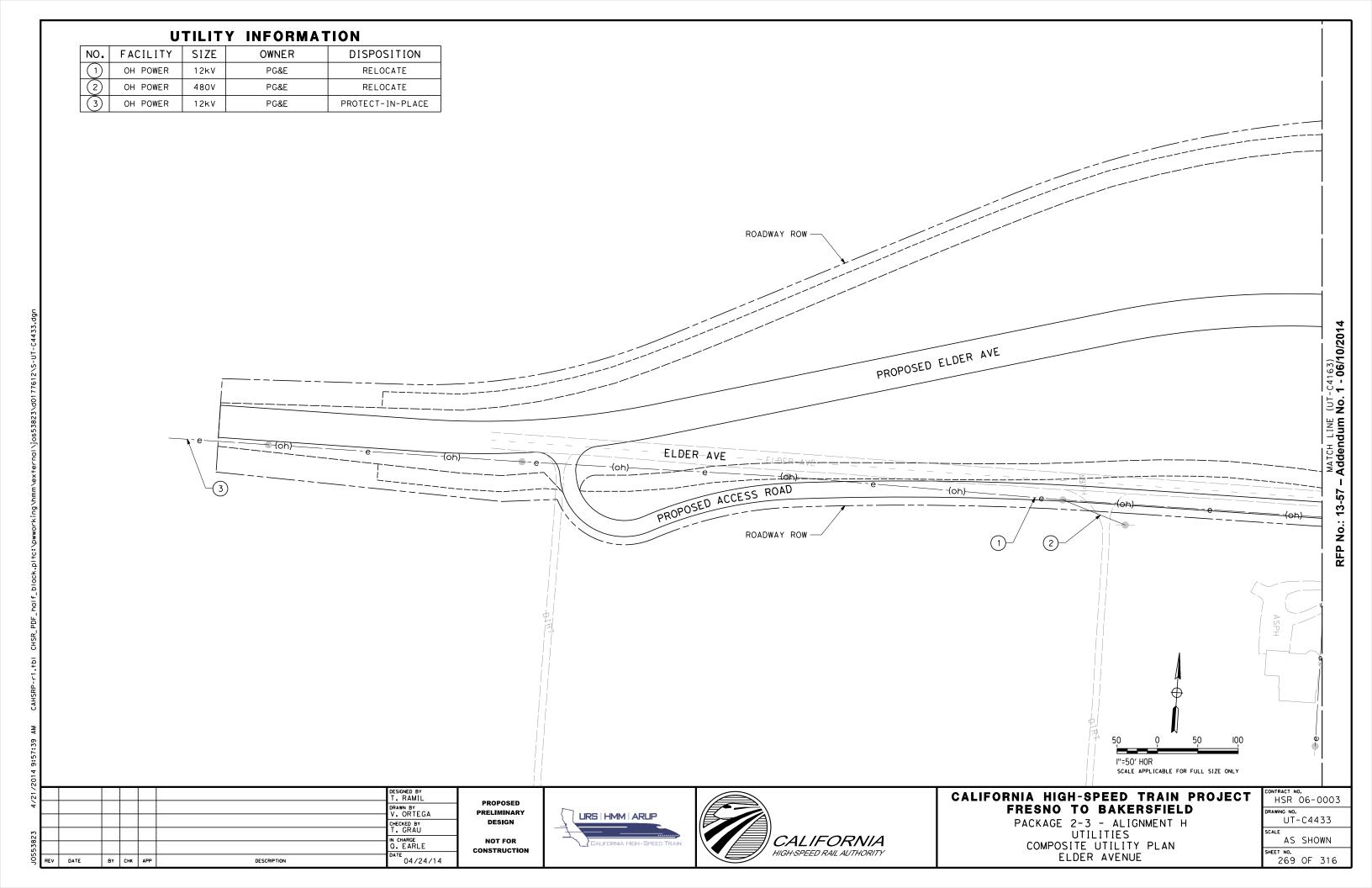


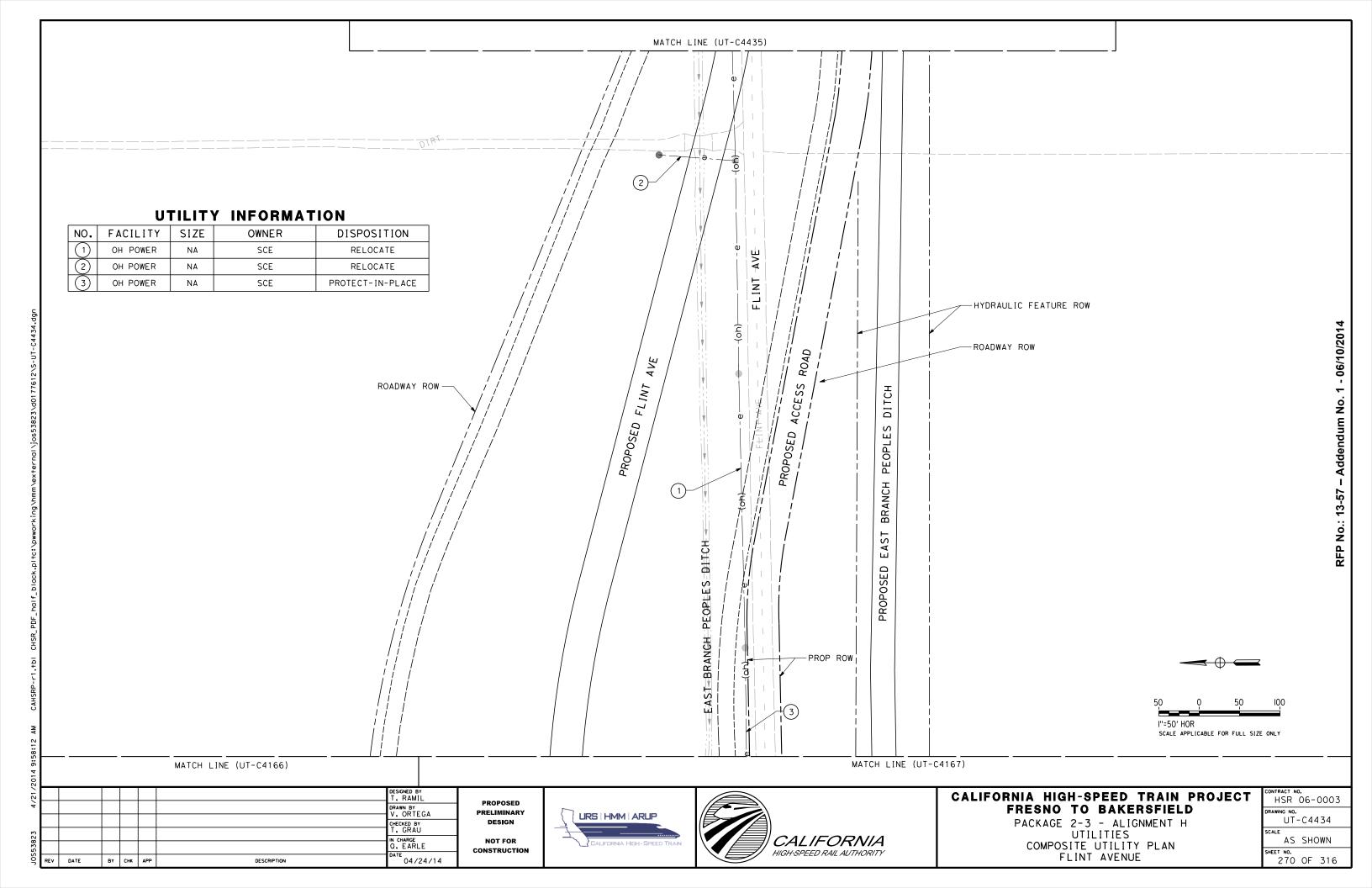








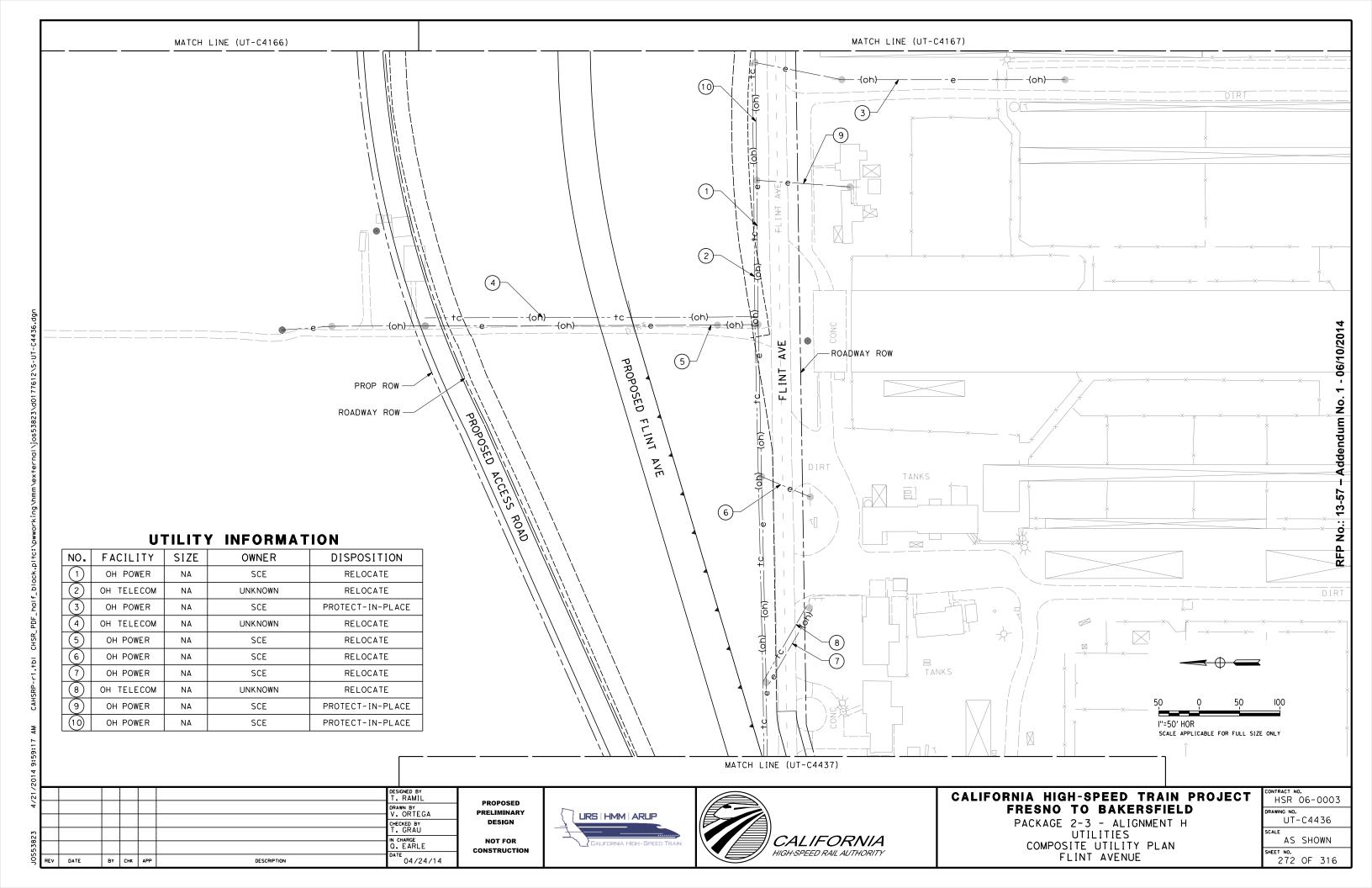




04/24/14

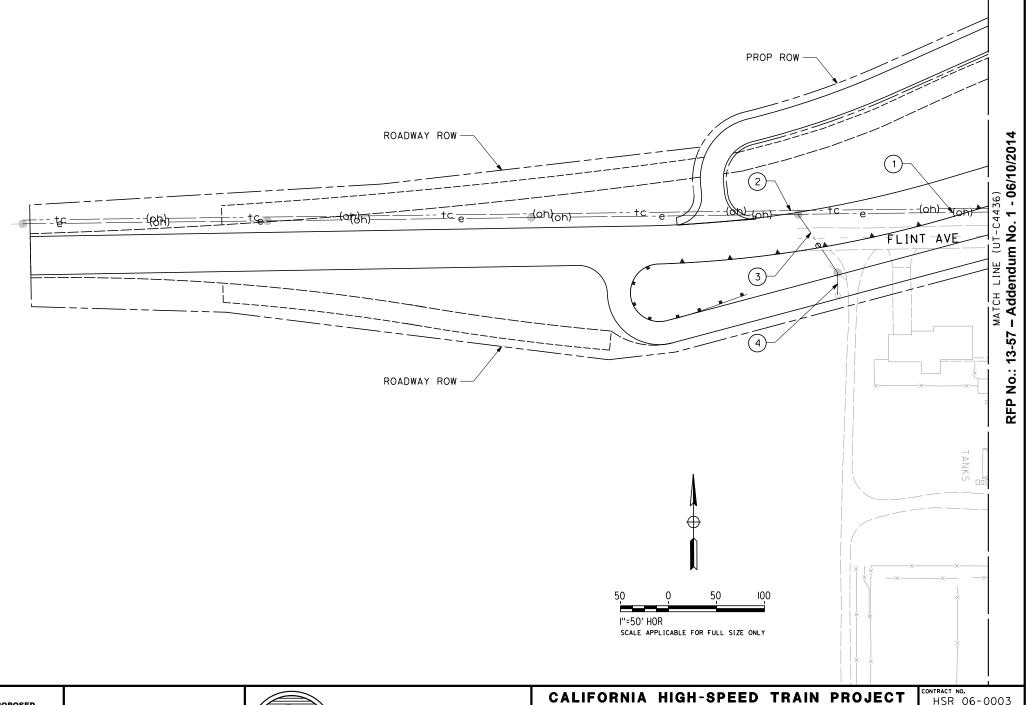
BY CHK APP

DESCRIPTION



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
	OH POWER	NA	SCE	RELOCATE
2	OH TELECOM	NA	UNKNOWN	RELOCATE
3	OH POWER	NA	SCE	RELOCATE
(4)	POWER	NA	SCE	RELOCATE



| DESIGNED BY | T. RAMIL | DRAWN BY | V. ORTEGA | CHECKED BY | T. GRAU | IN CHARGE | Q. EARLE | DATE | BY CHK APP | DESCRIPTION | DATE | O4/24/14 | O4/24/14 |

PROPOSED
PRELIMINARY
DESIGN
NOT FOR

CONSTRUCTION

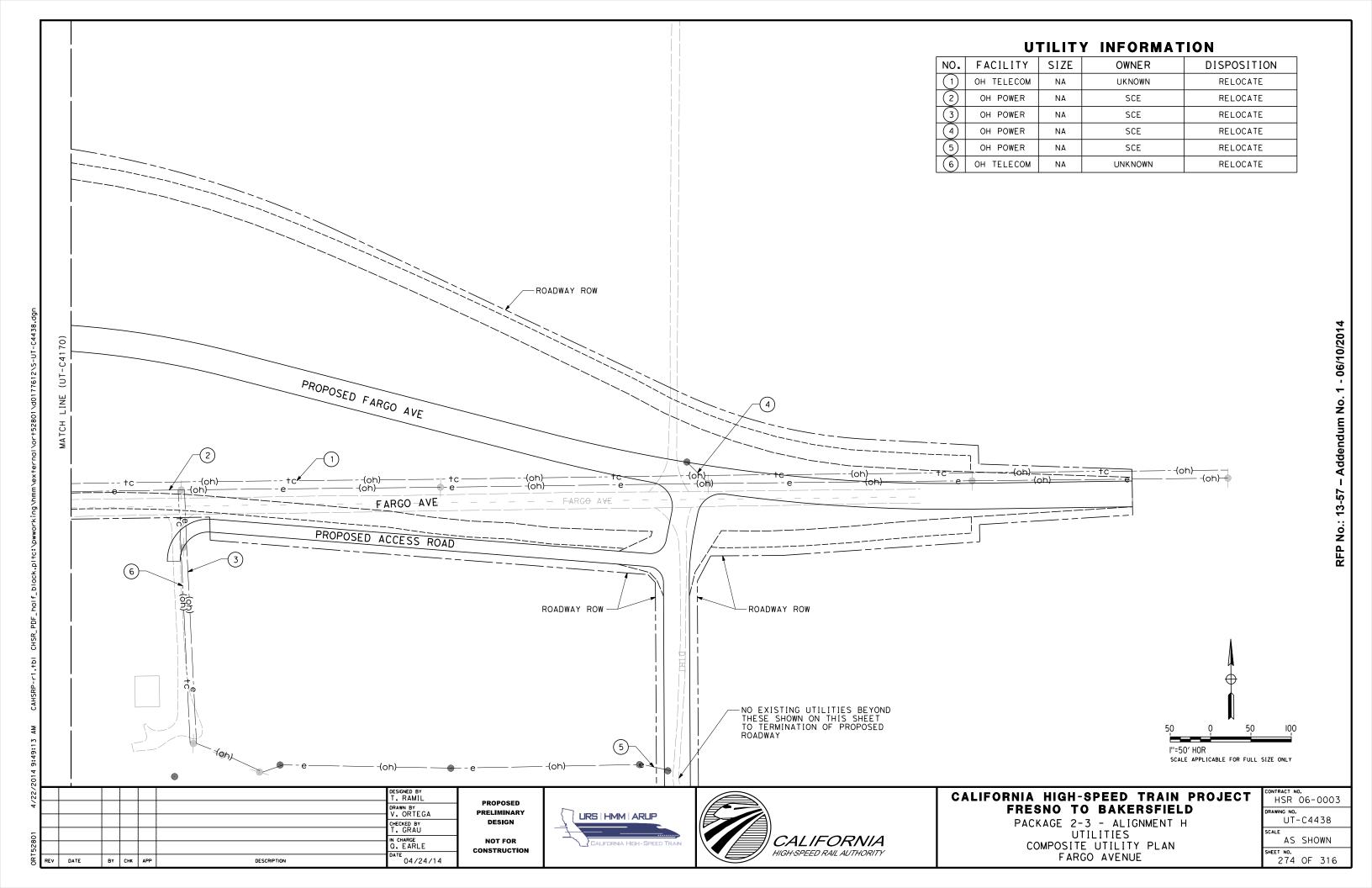


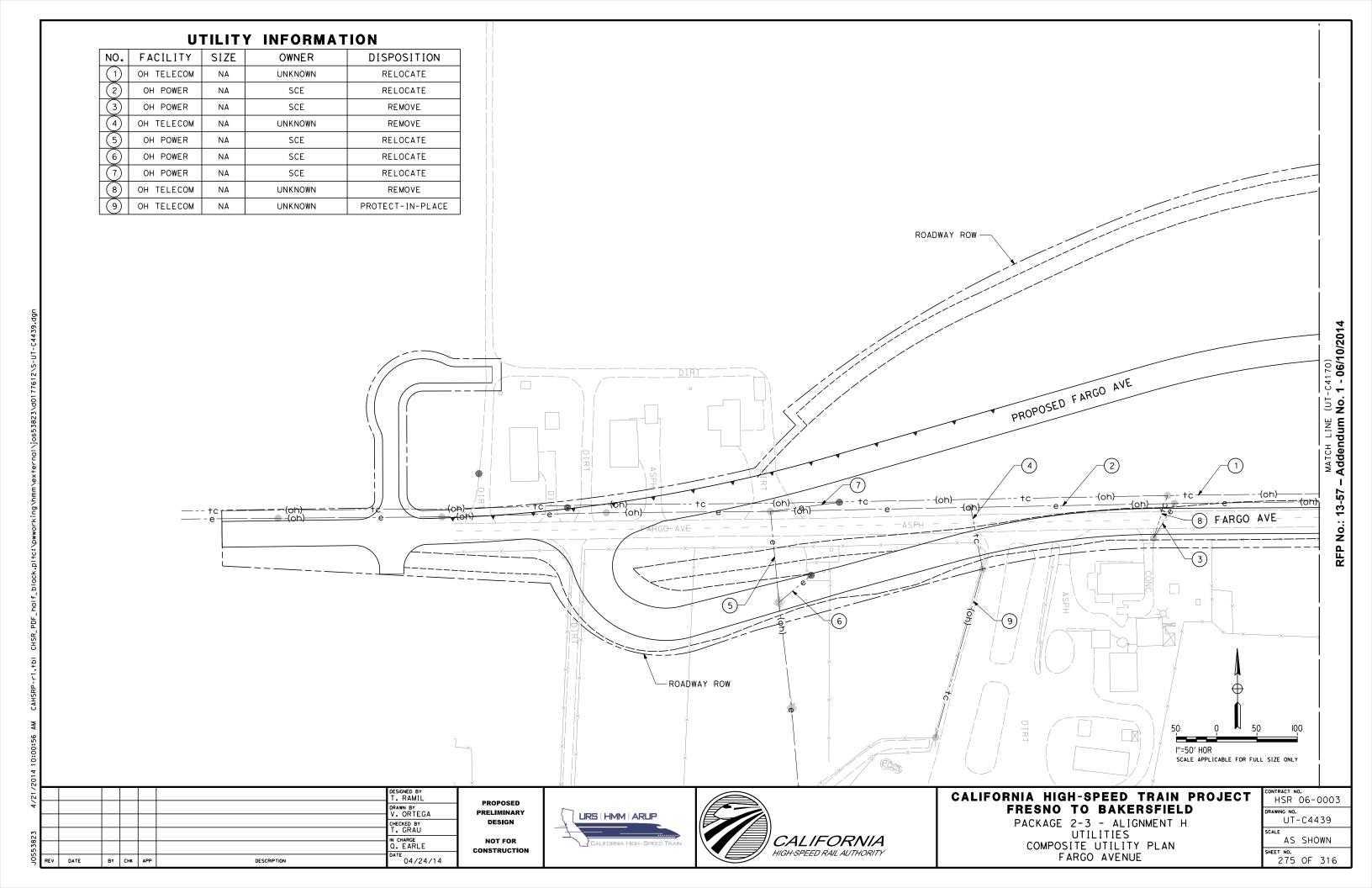


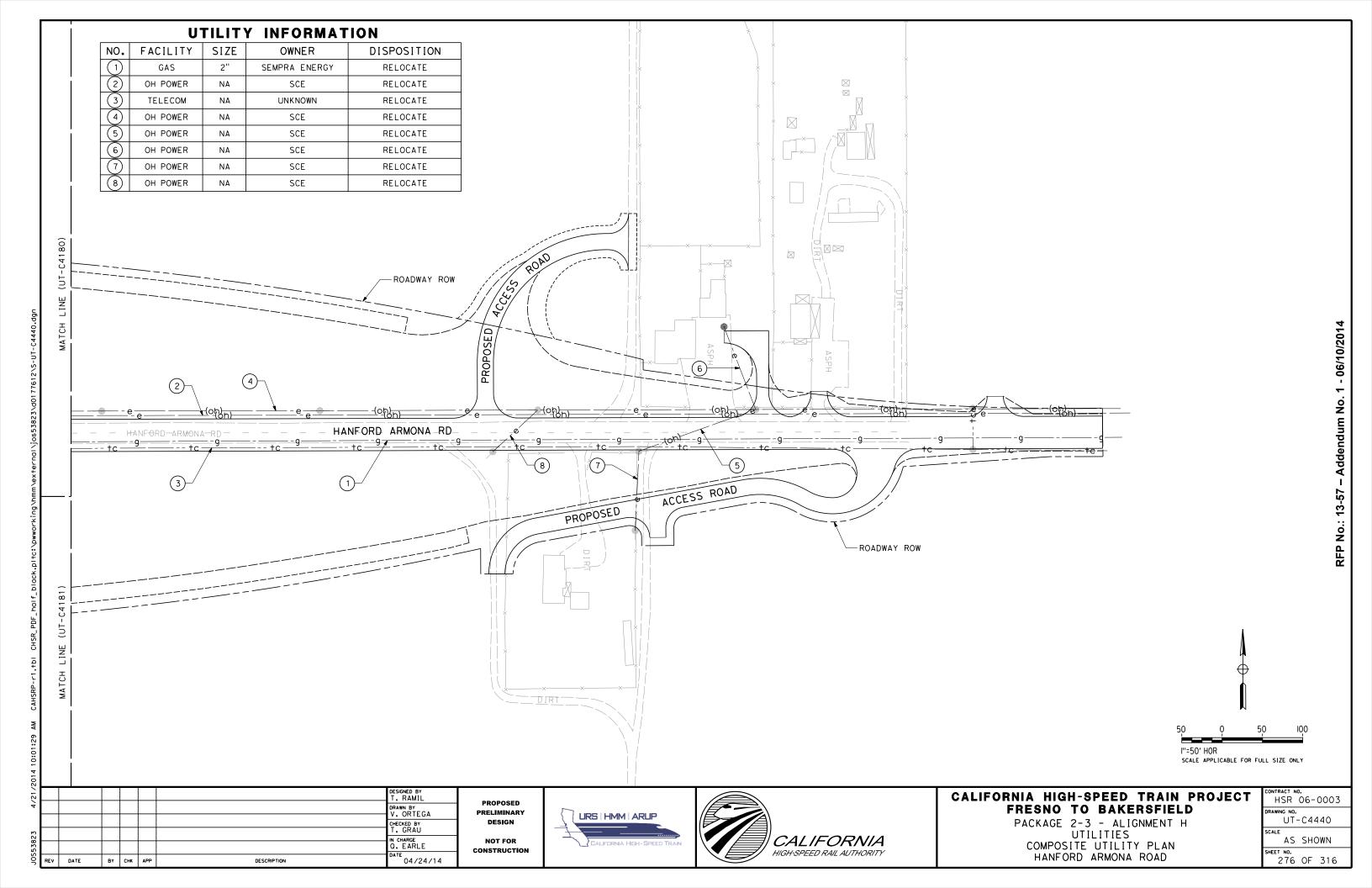
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

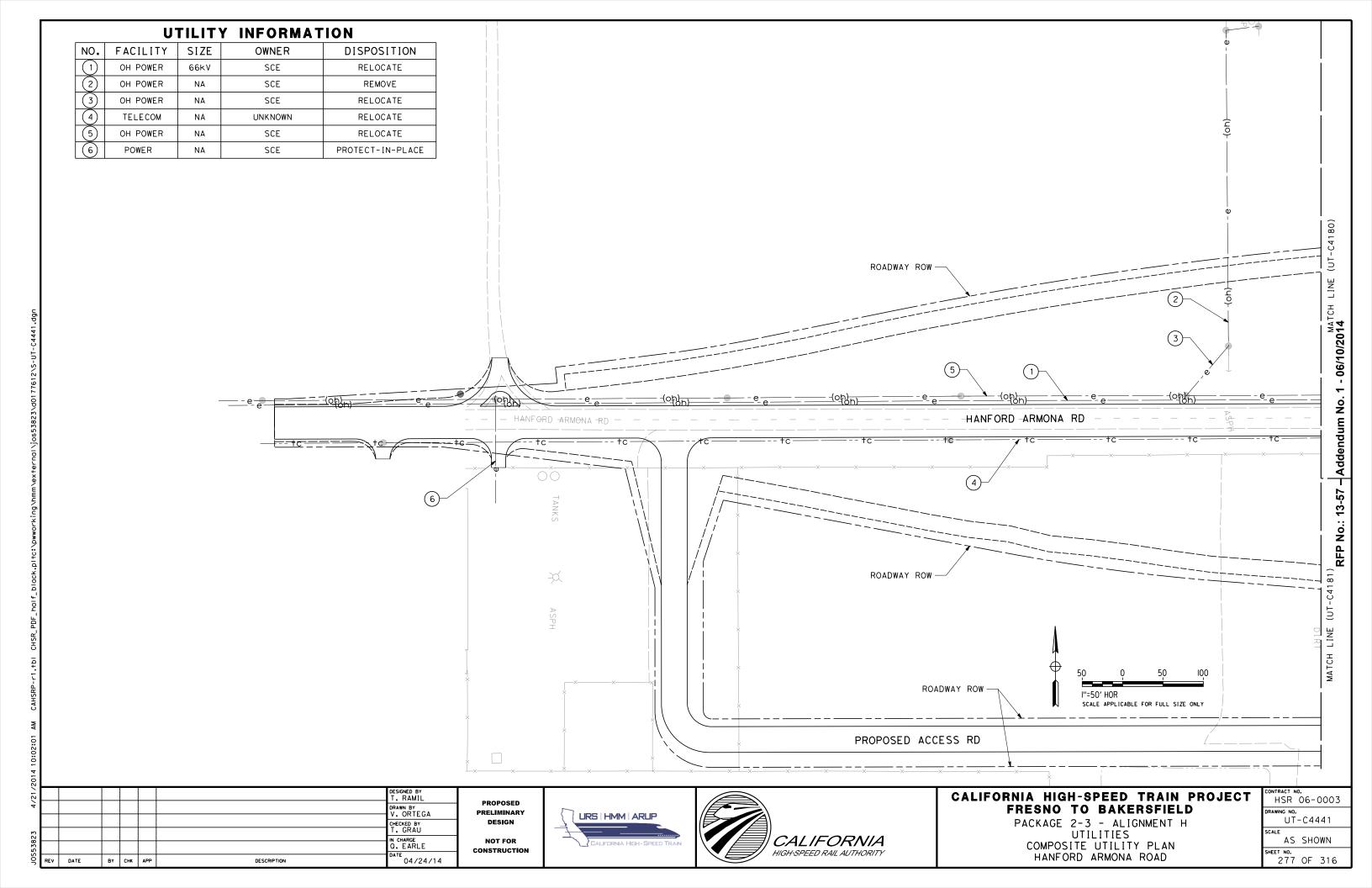
PACKAGE 2-3 - ALIGNMENT H UTILITIES COMPOSITE UTILITY PLAN FLINT AVENUE

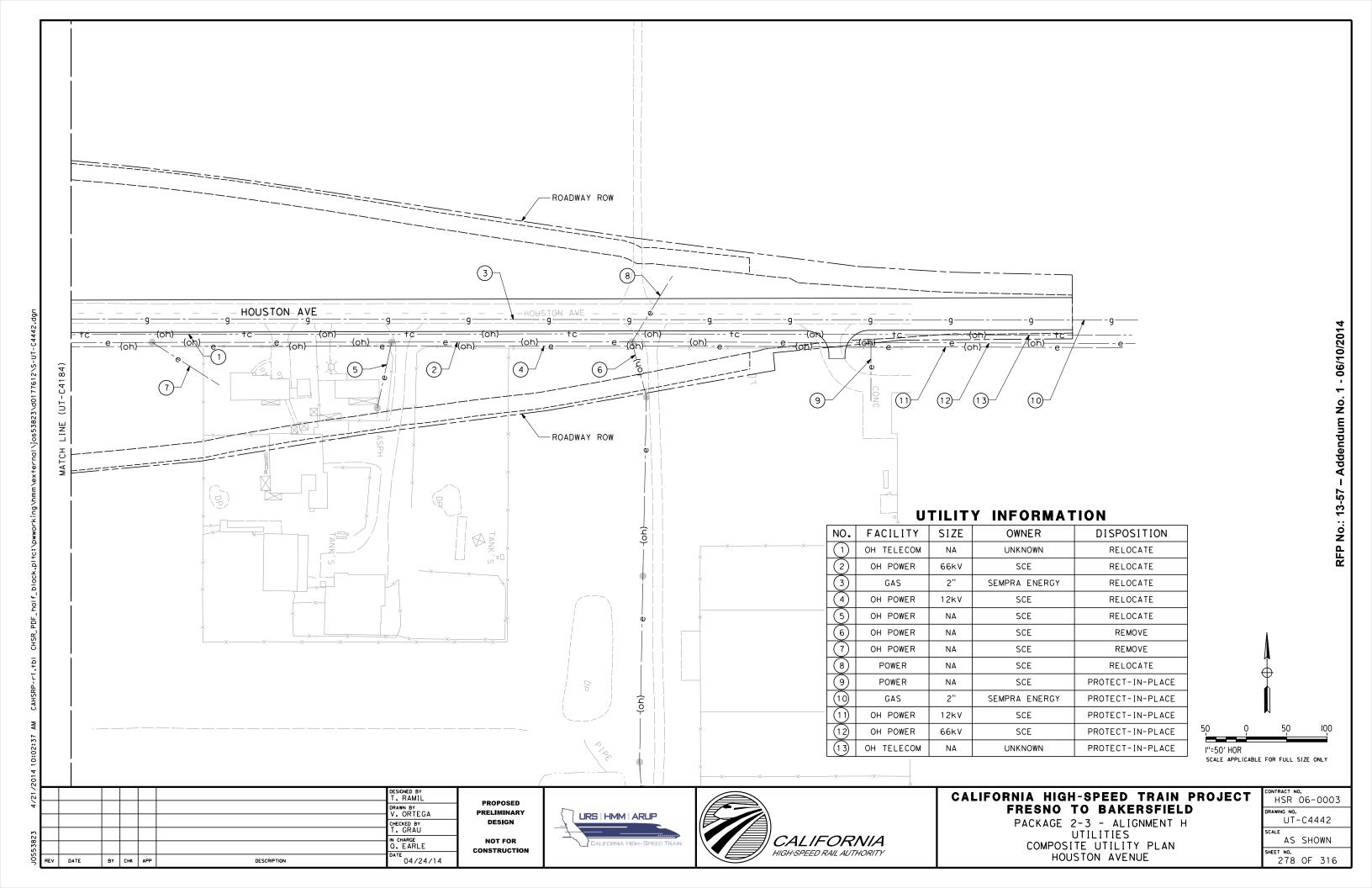
ONTRACT I	NO. 06-0003	
RAWING NO	-C4437	
CALE AS	SHOWN	
HEET NO.	OF 316	

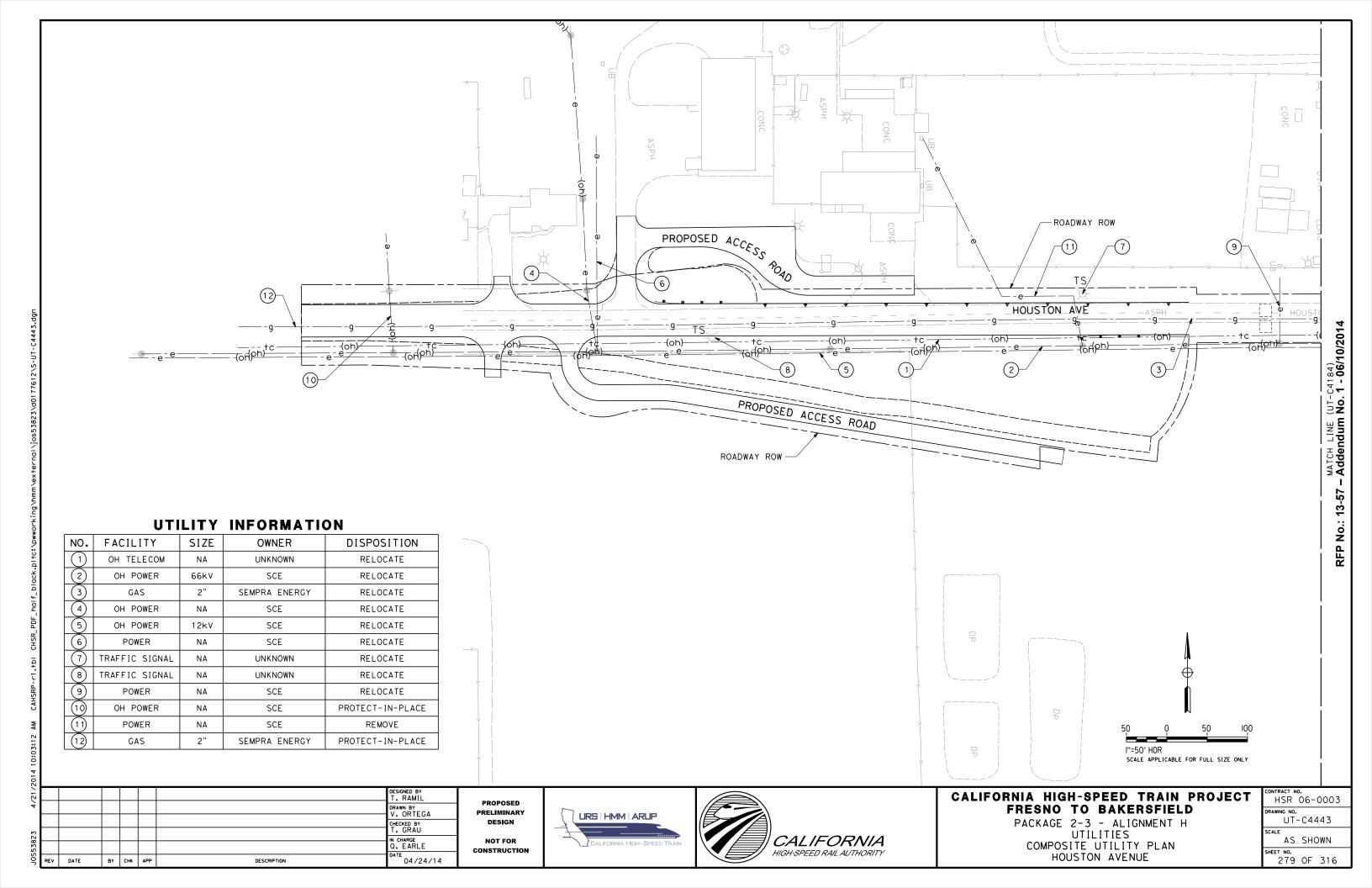


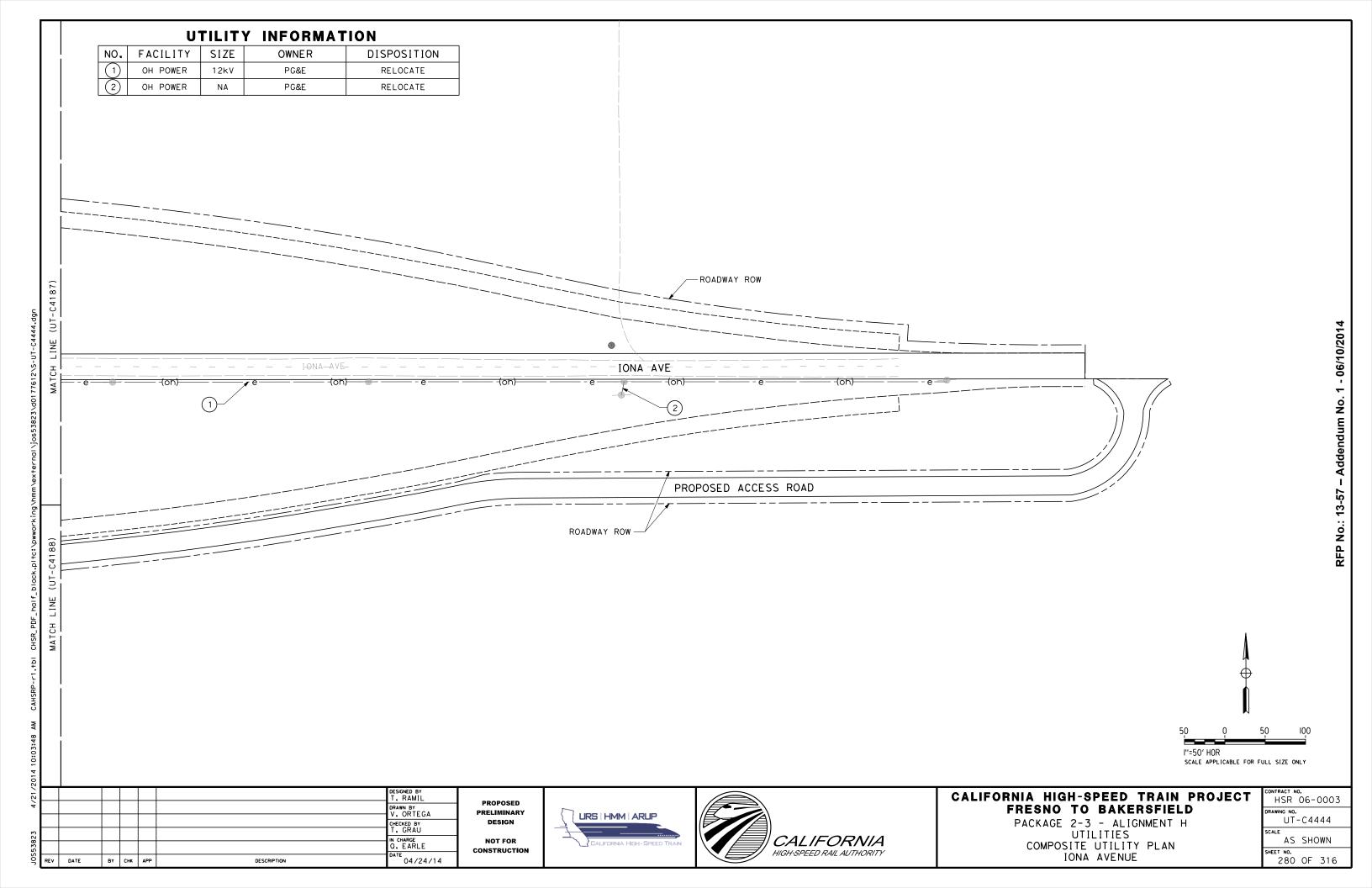


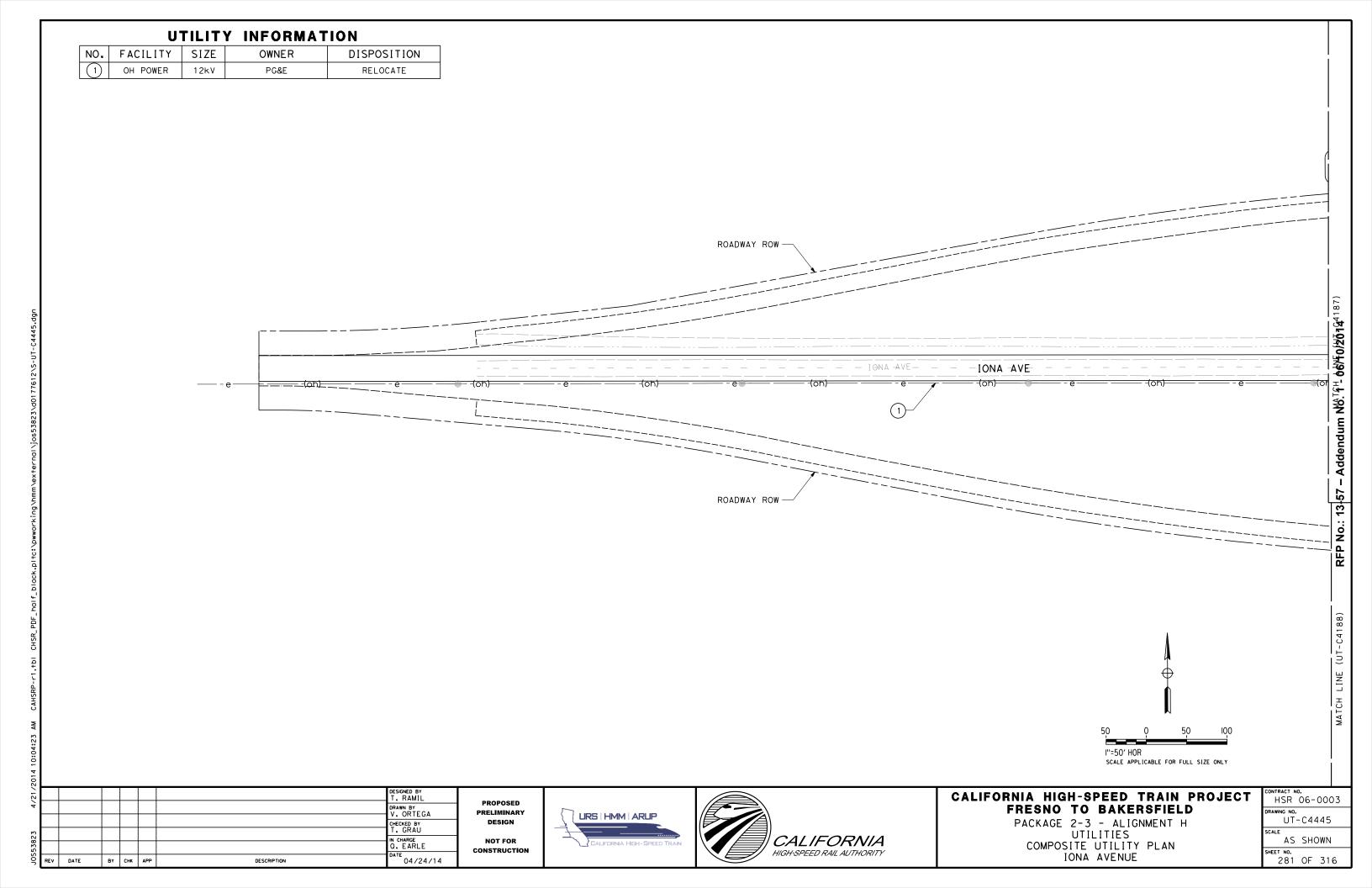


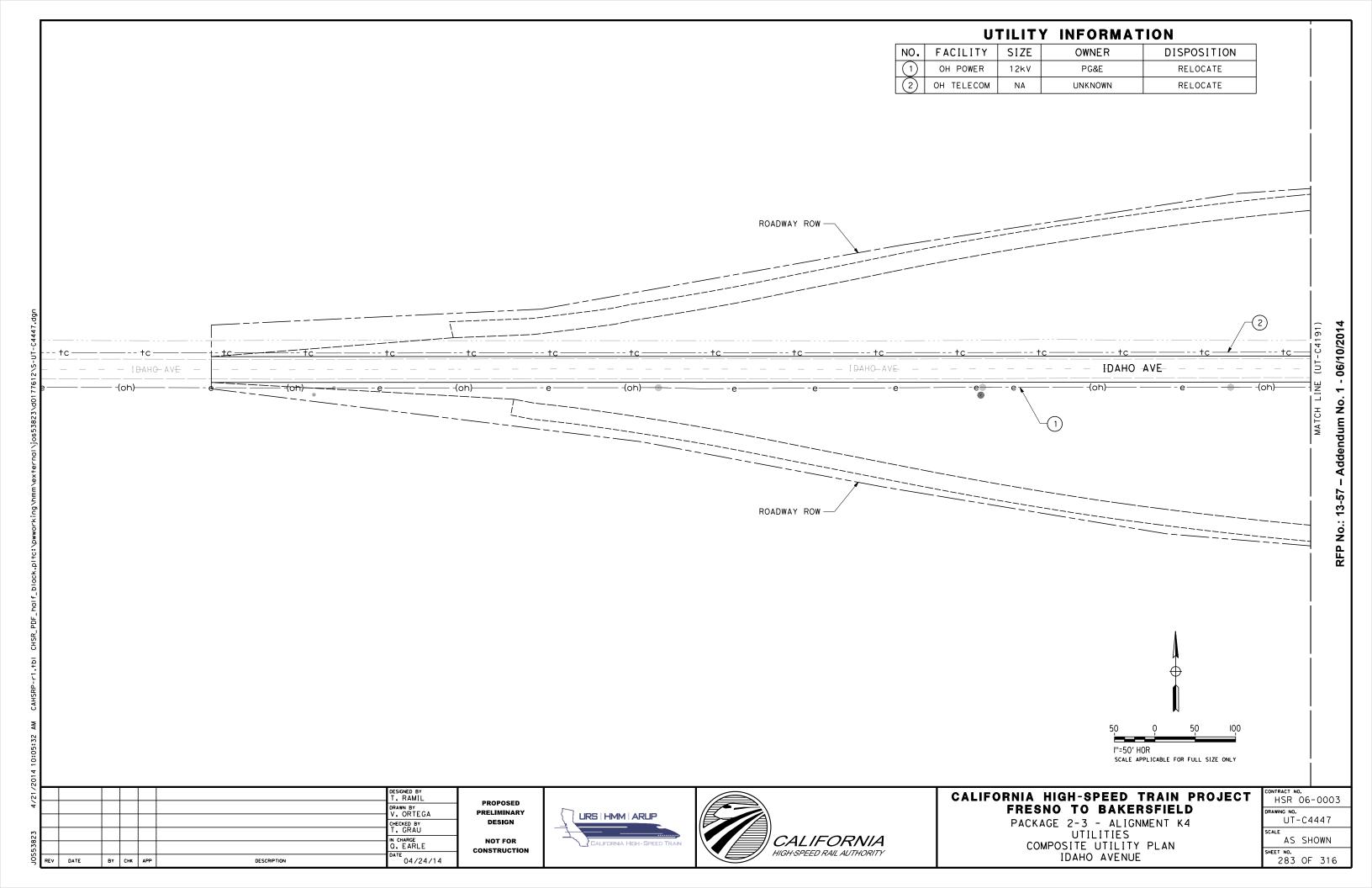


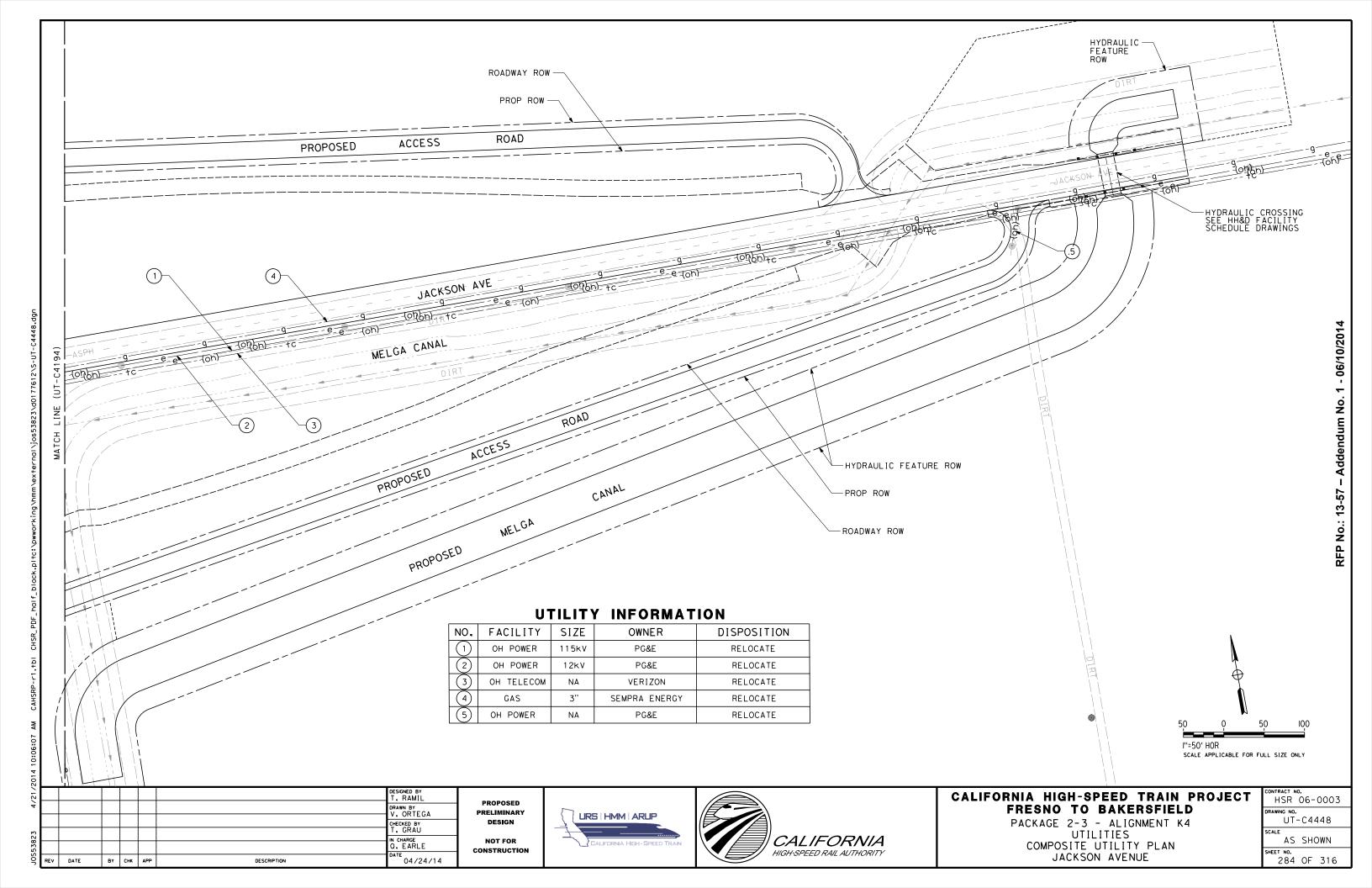






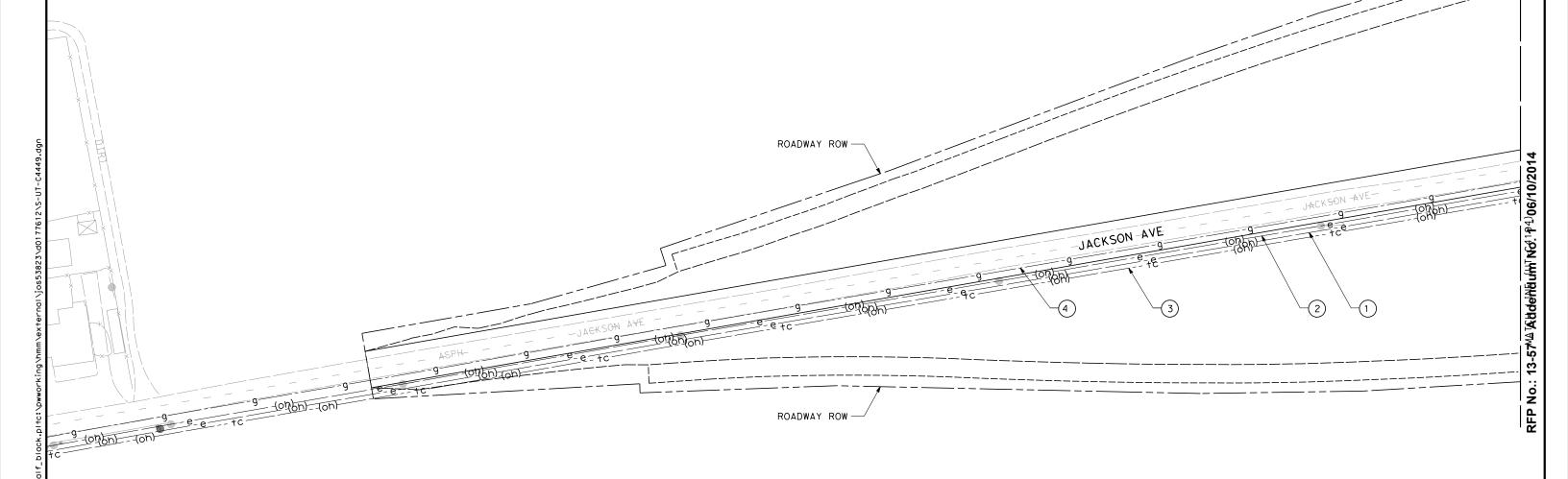


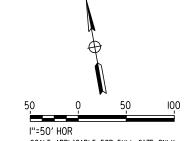




UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(-)	OH POWER	115kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	RELOCATE
3	OH TELECOM	NA	VERIZON	RELOCATE
(4)	GAS	3''	SEMPRA ENERGY	RELOCATE





SCALE APPLICABLE FOR FULL SIZE ONLY

2								
/17							DESIGNED BY T. RAMIL	
4							DRAWN BY V. ORTEGA	1
							CHECKED BY	1
323							IN CHARGE	
55.58							Q. EARLE	
S	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/24/14	

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION

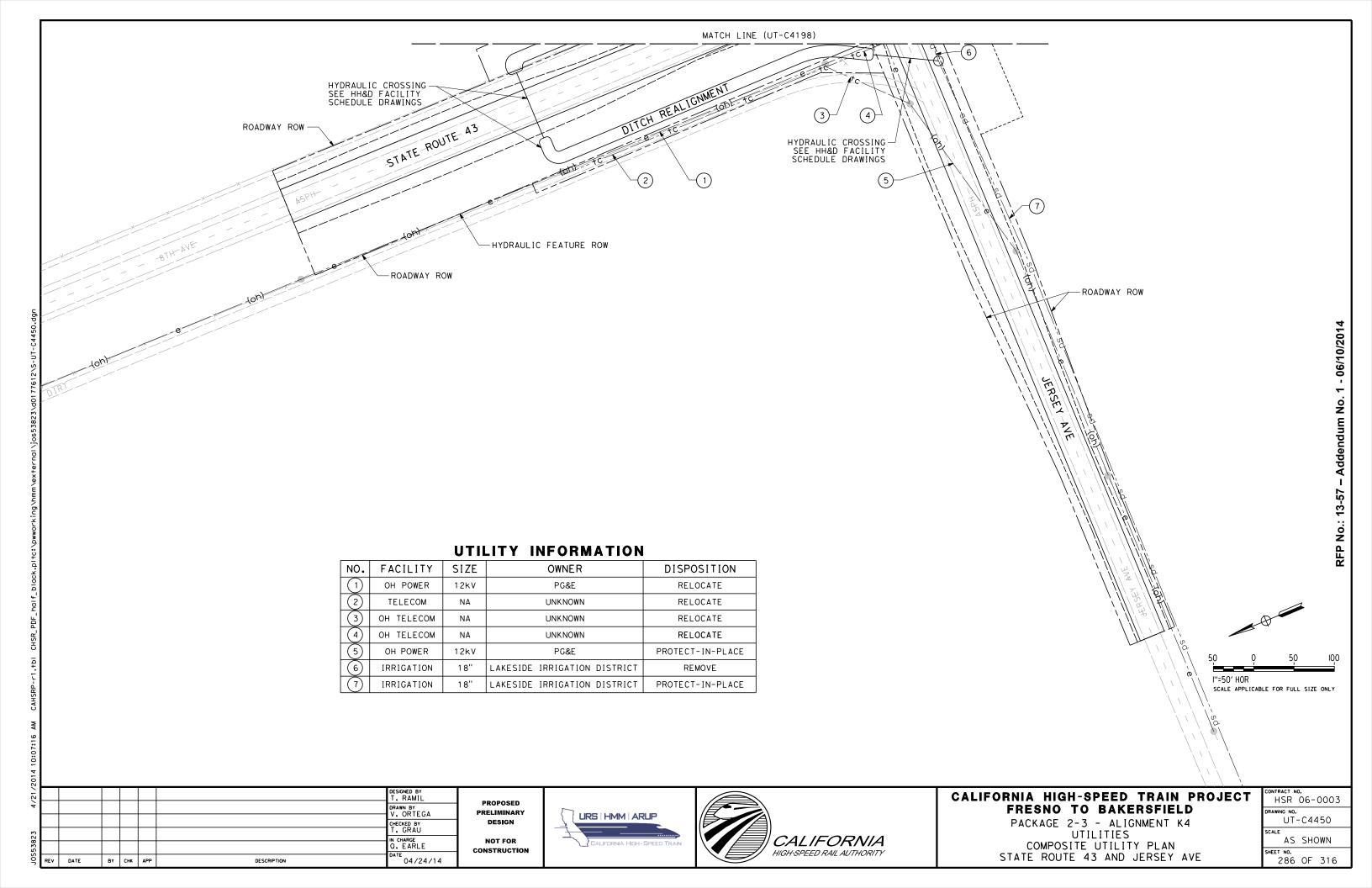




CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 - ALIGNMENT K4 UTILITIES COMPOSITE UTILITY PLAN JACKSON AVENUE

CONTRACT NO. HSR 06-0003	
DRAWING NO.	
UT-C4449	
SCALE	
AS SHOWN	
SHEET NO.	
285 OF 316	



UTILITY INFORMATION NO. FACILITY SIZE OWNER DISPOSITION OH POWER 12kV PG&E PROTECT-IN-PLACE OH TELECOM PROTECT-IN-PLACE NΑ UNKNOWN RFP No.: 13-57 ROADWAY ROW STATE ROUTE 43 ROADWAY ROW HYDRAULIC FEATURE ROW-SCALE APPLICABLE FOR FULL SIZE ONLY MATCH LINE (UT-C4199) MATCH LINE (UT-C4200) ONTRACT NO. HSR 06-0003 DESIGNED BY T. RAMIL CALIFORNIA HIGH-SPEED TRAIN PROJECT PROPOSED DRAWN BY V. ORTEGA FRESNO TO BAKERSFIELD NAWING NO. UT-C4451 PRELIMINARY URS | HMM | ARUP PACKAGE 2-3 - ALIGNMENT K4 UTILITIES COMPOSITE UTILITY PLAN STATE ROUTE 43 DESIGN CHECKED BY CALIFORNIA AS SHOWN IN CHARGE Q. EARLE NOT FOR CONSTRUCTION 287 OF 316 HIGH-SPEED RAIL AUTHORITY 04/24/14 BY CHK APP DESCRIPTION

CALIFORNIA

IN CHARGE Q. EARLE

DESCRIPTION

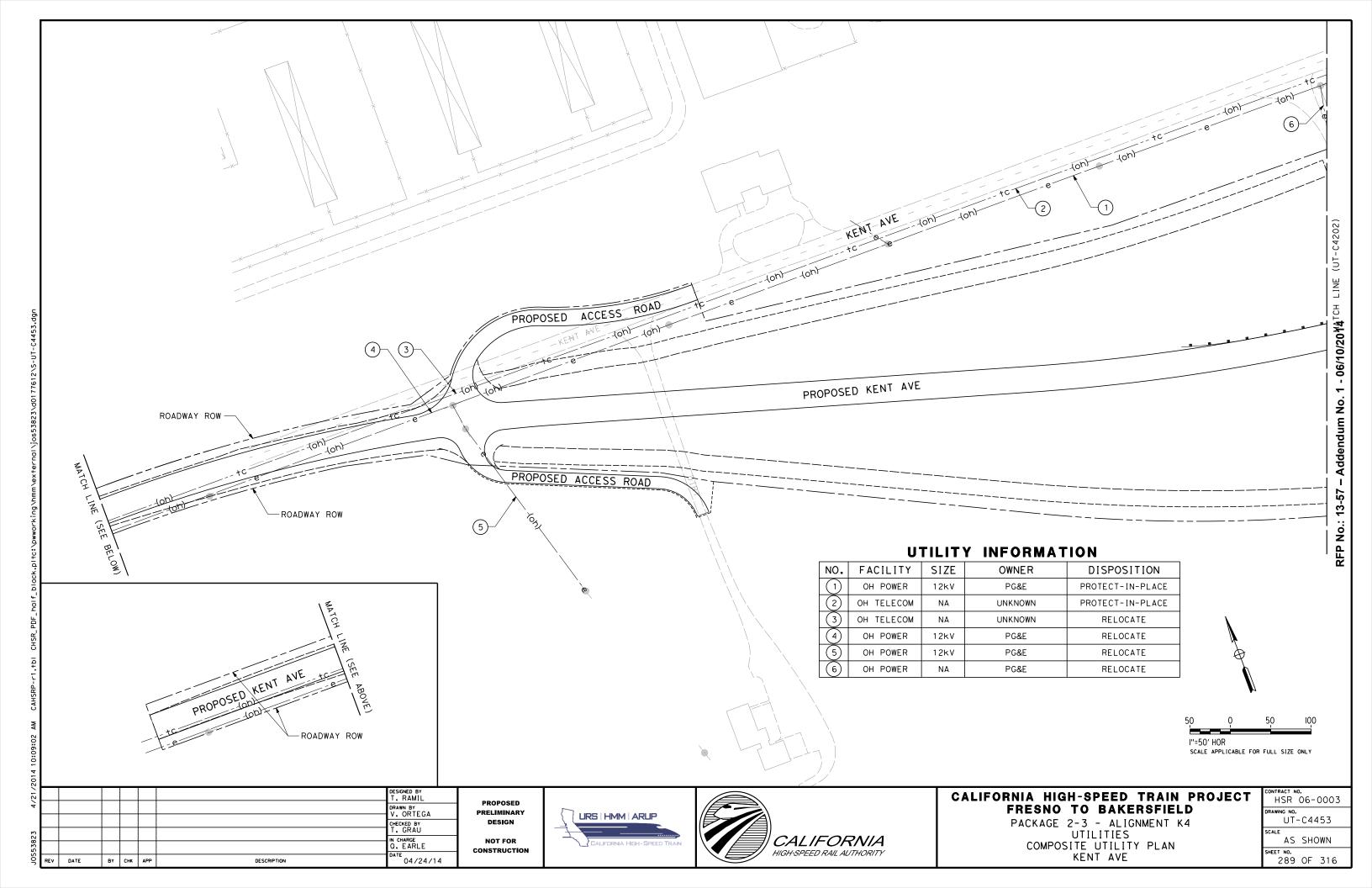
BY CHK APP

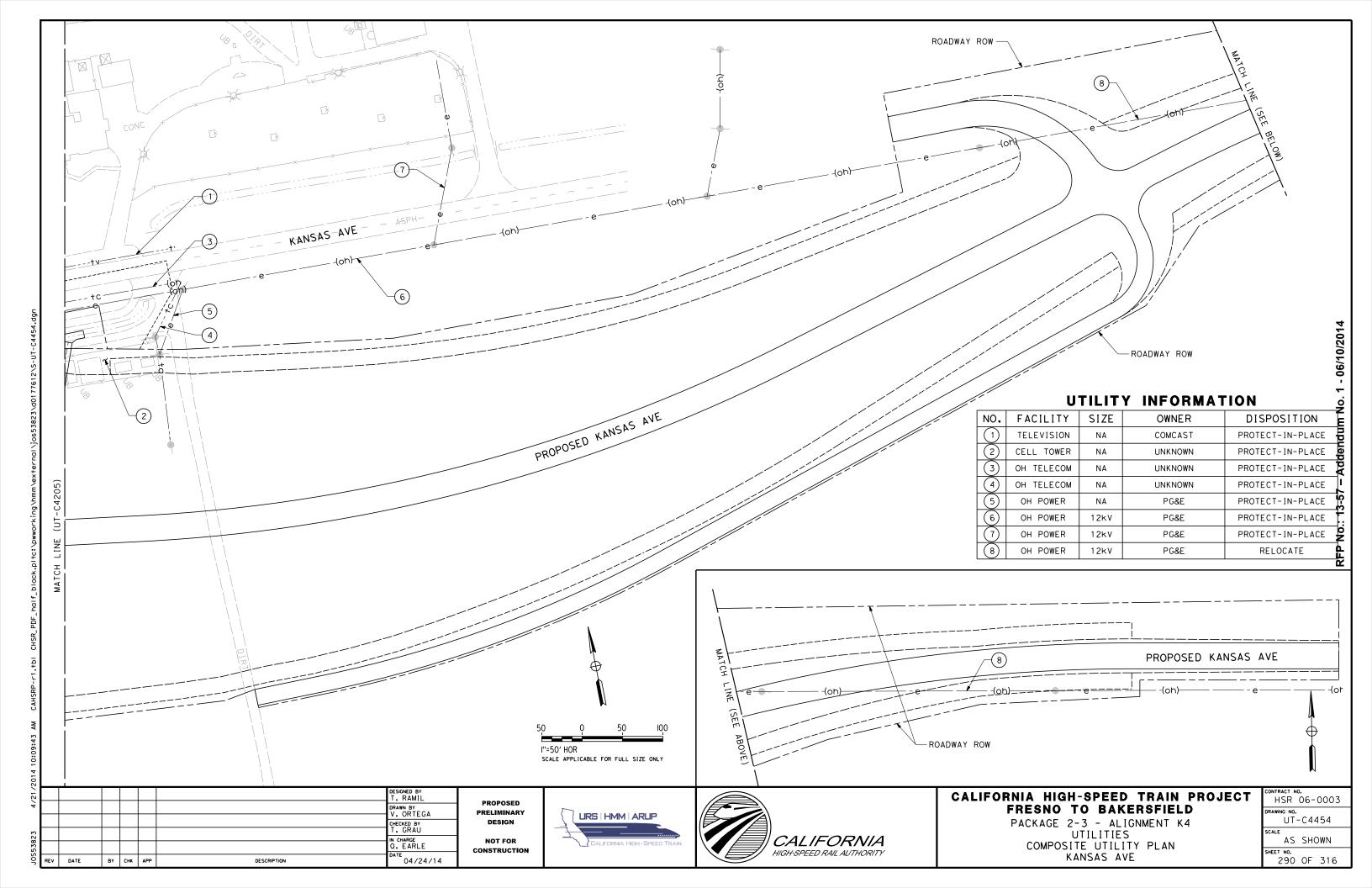
E 04/24/14

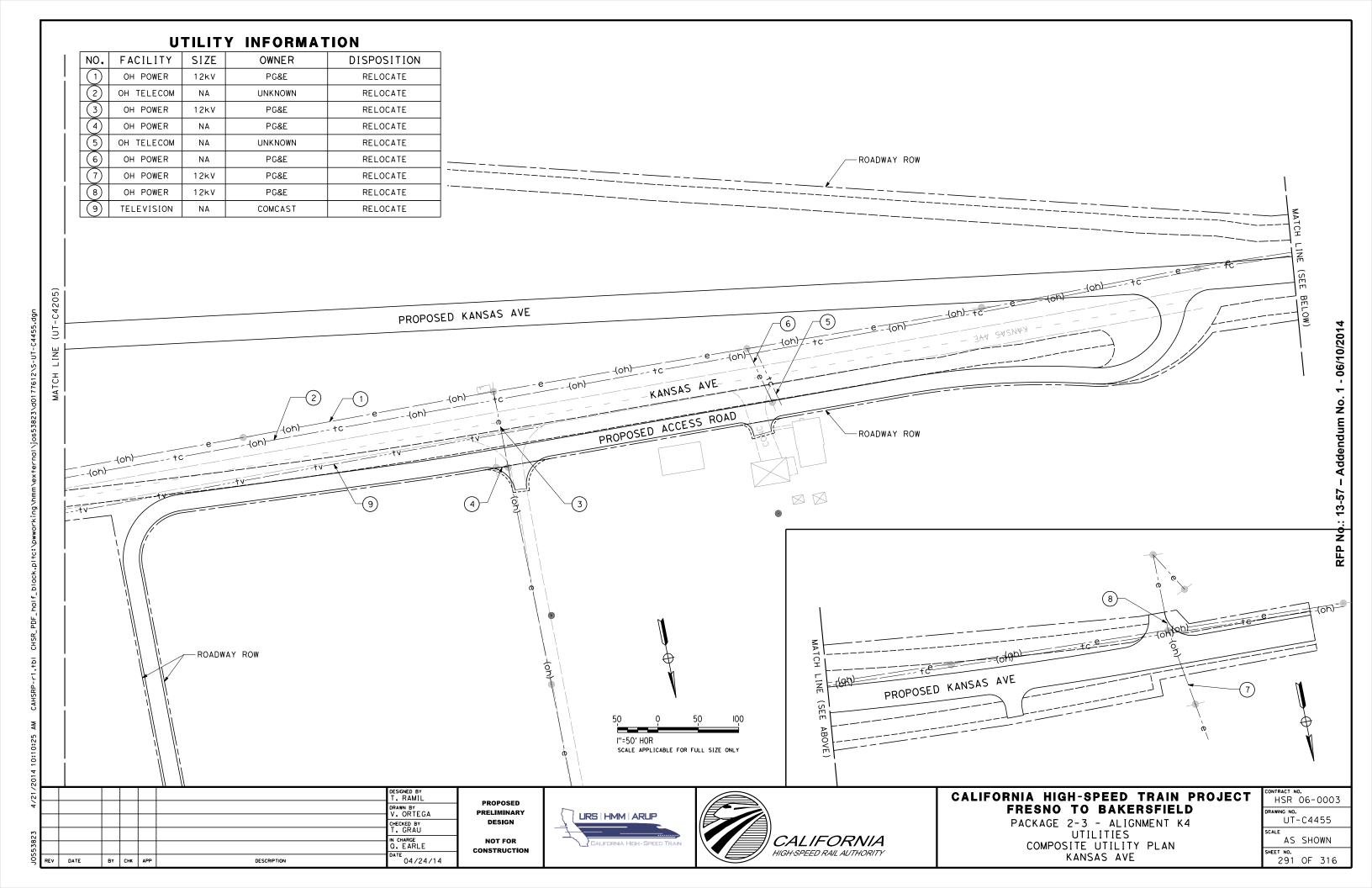
NOT FOR CONSTRUCTION AS SHOWN

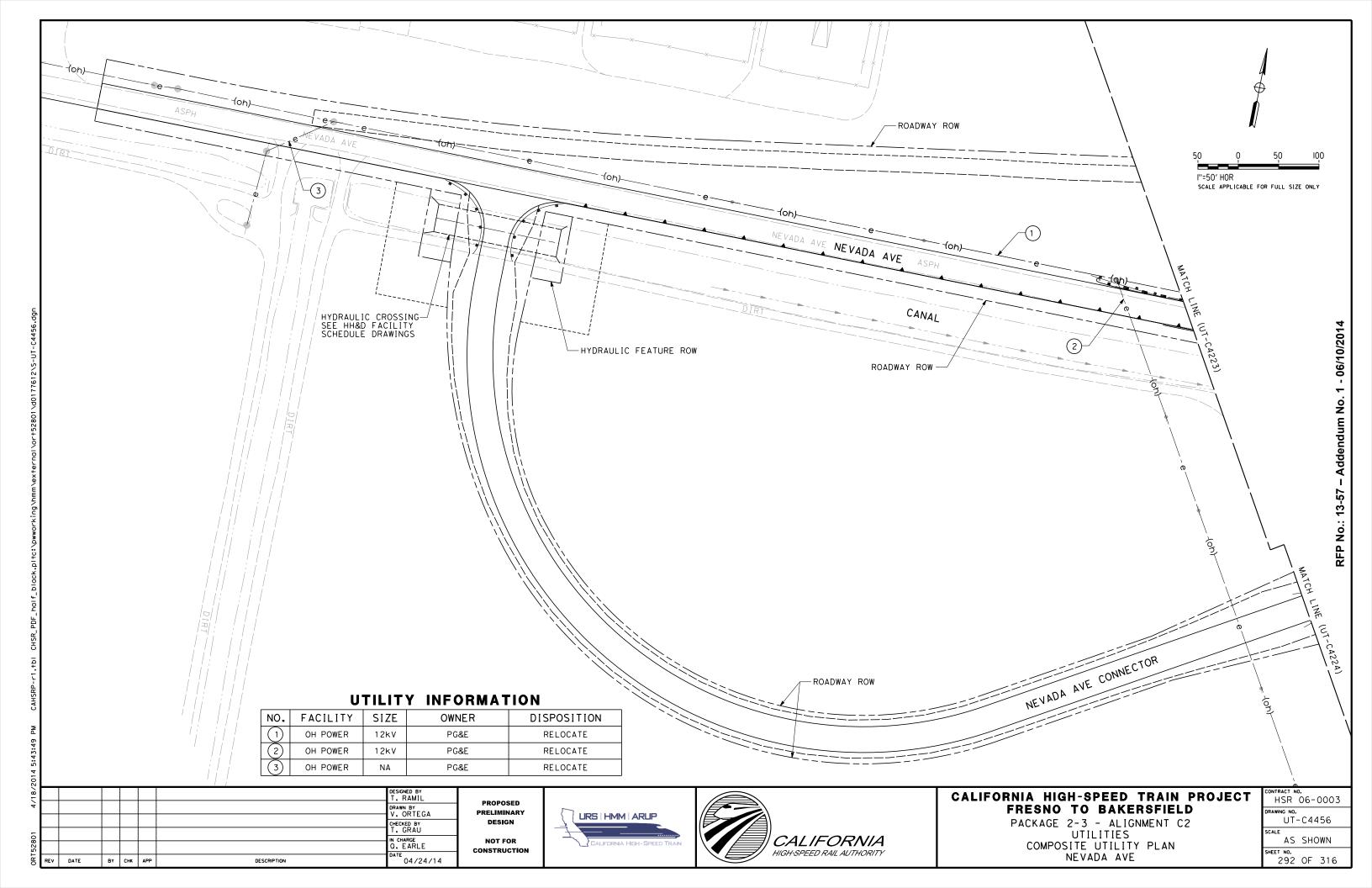
288 OF 316

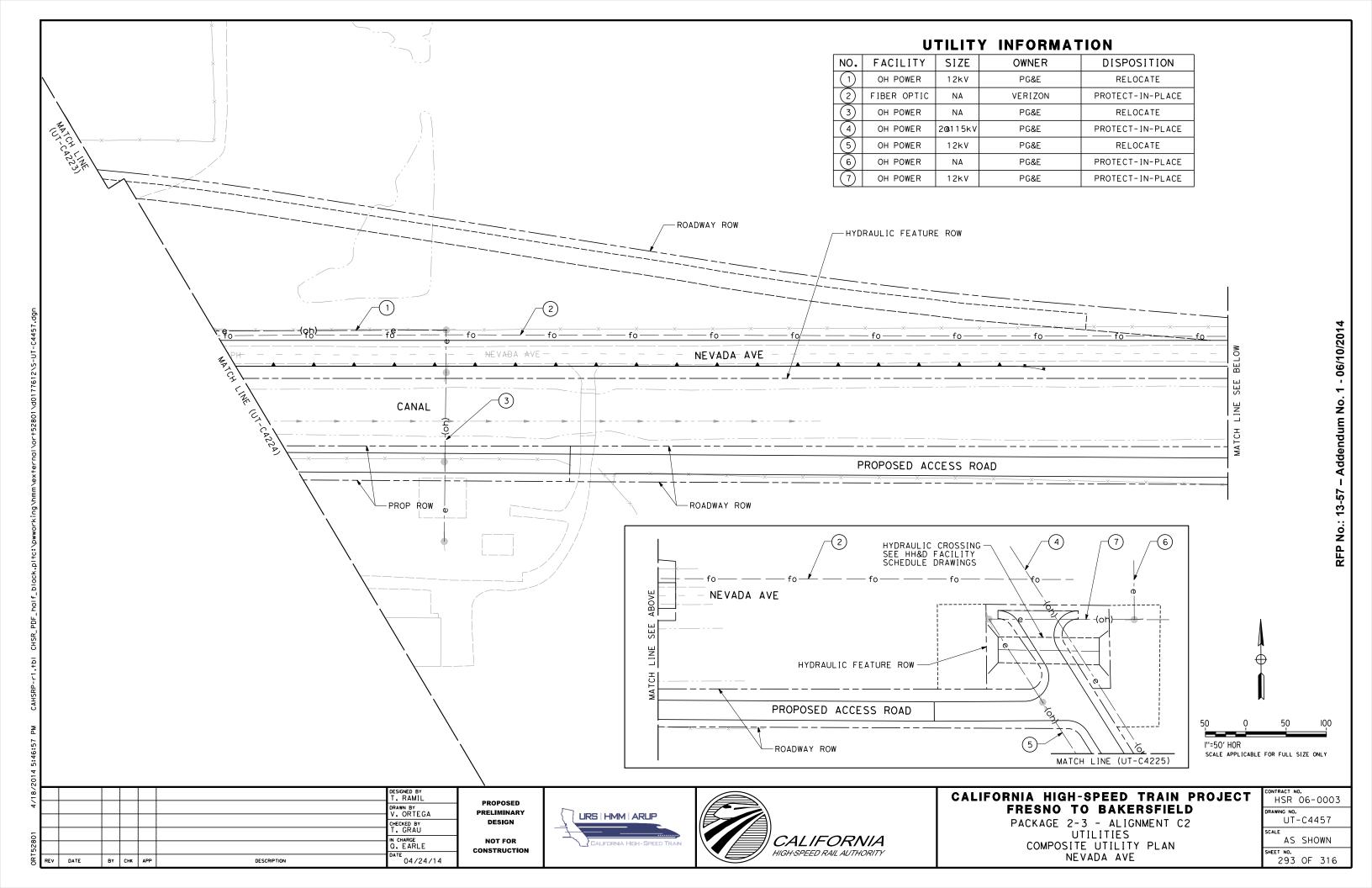
KENT AVE

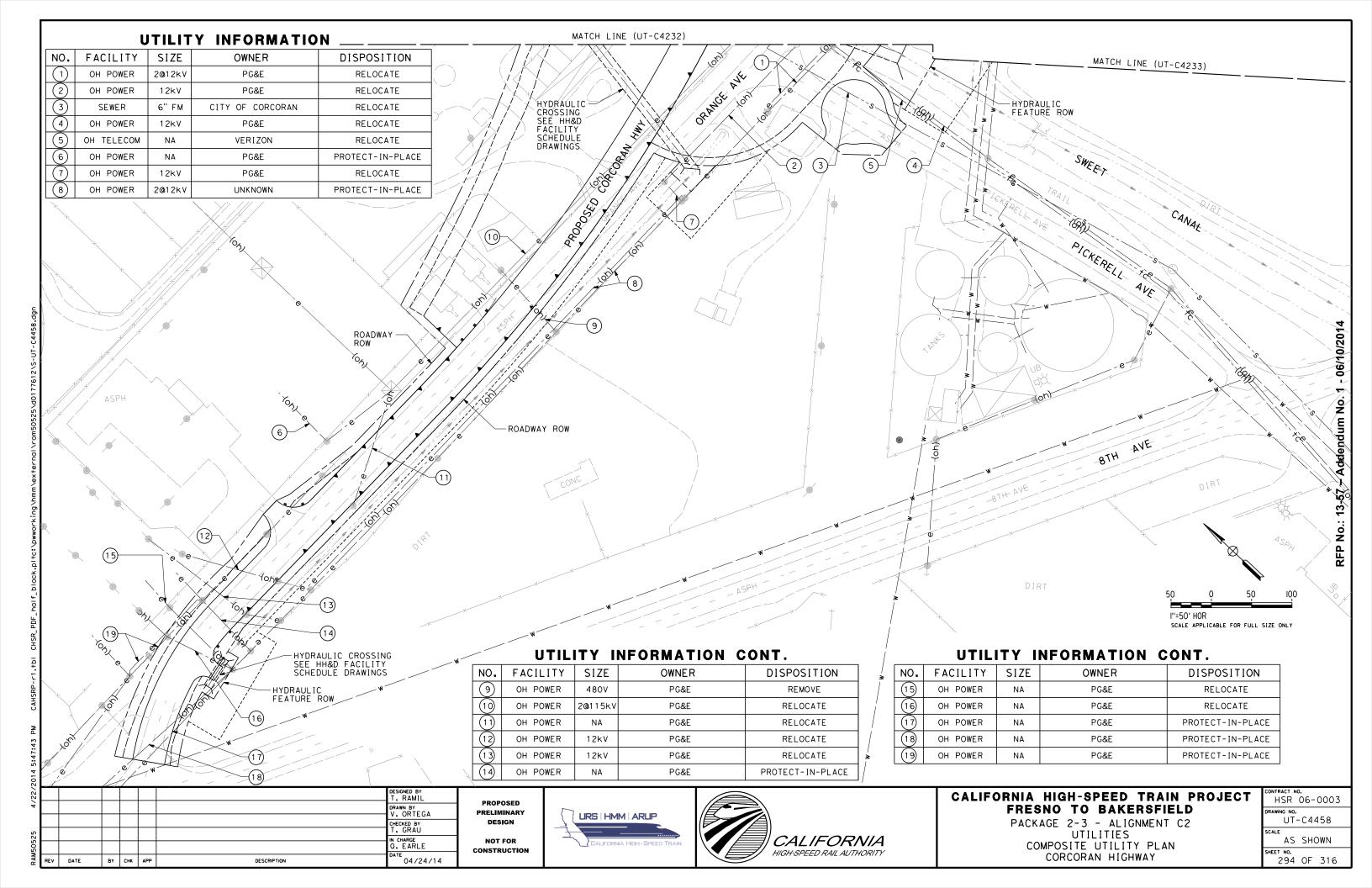


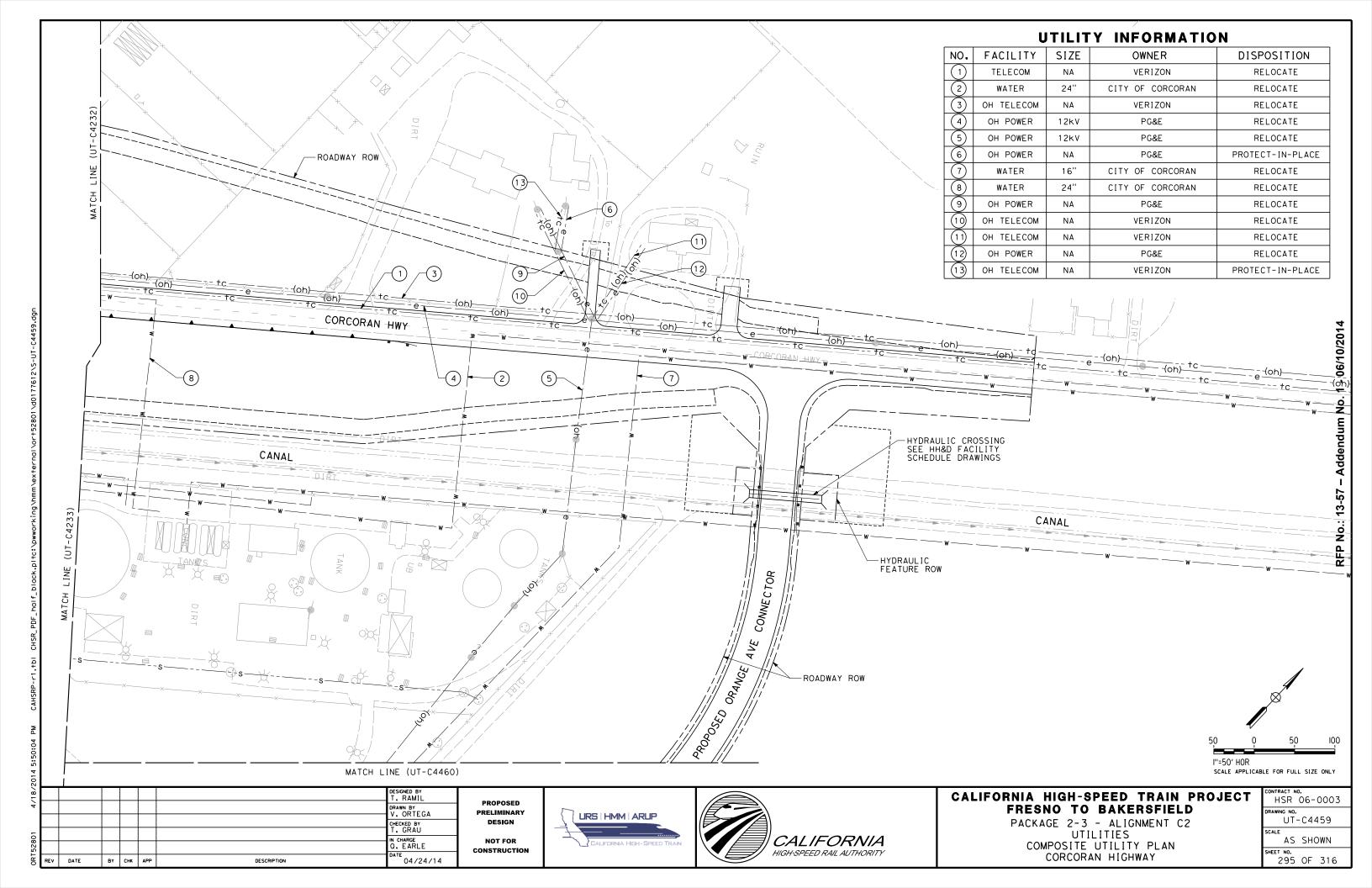


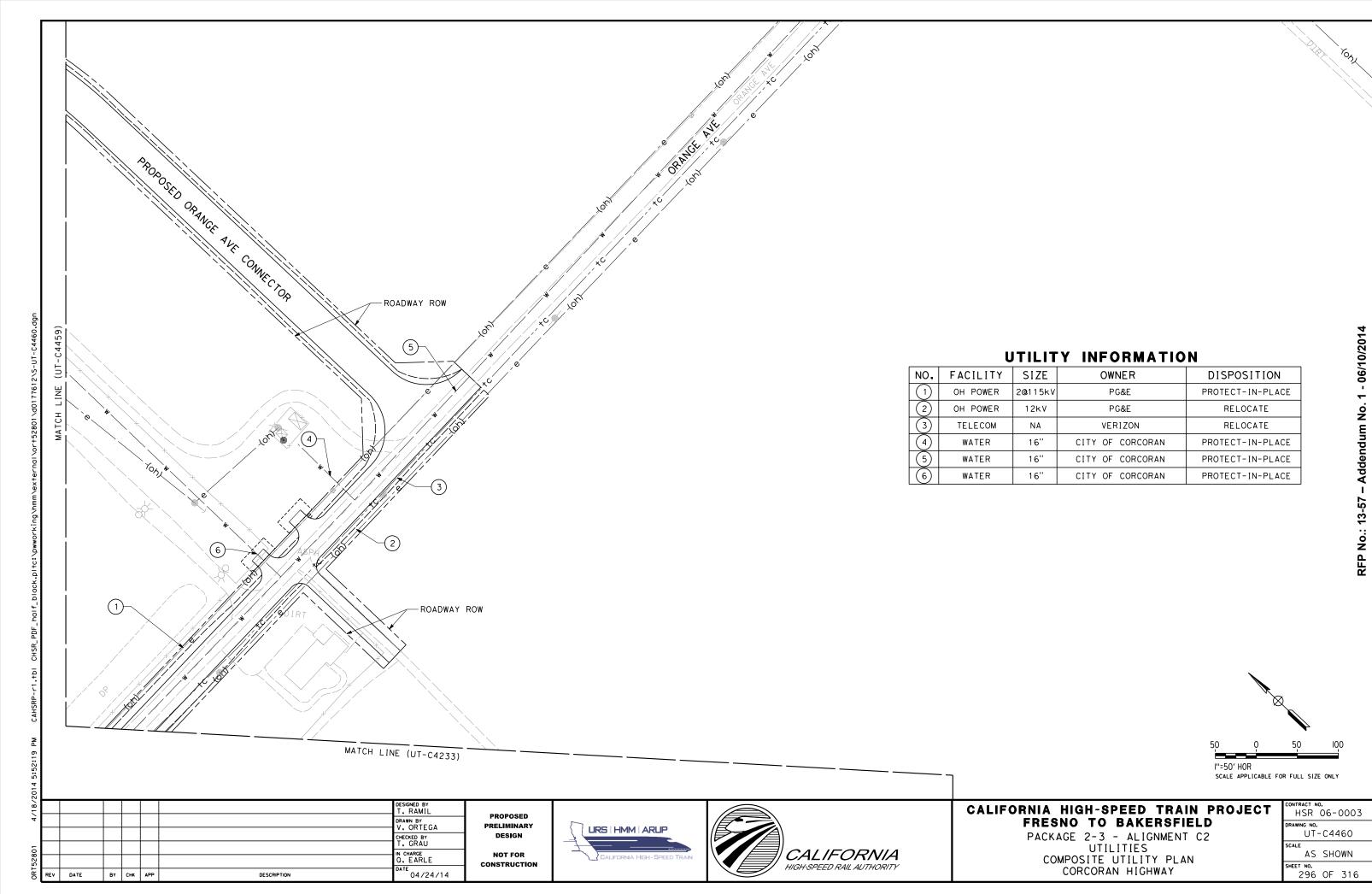


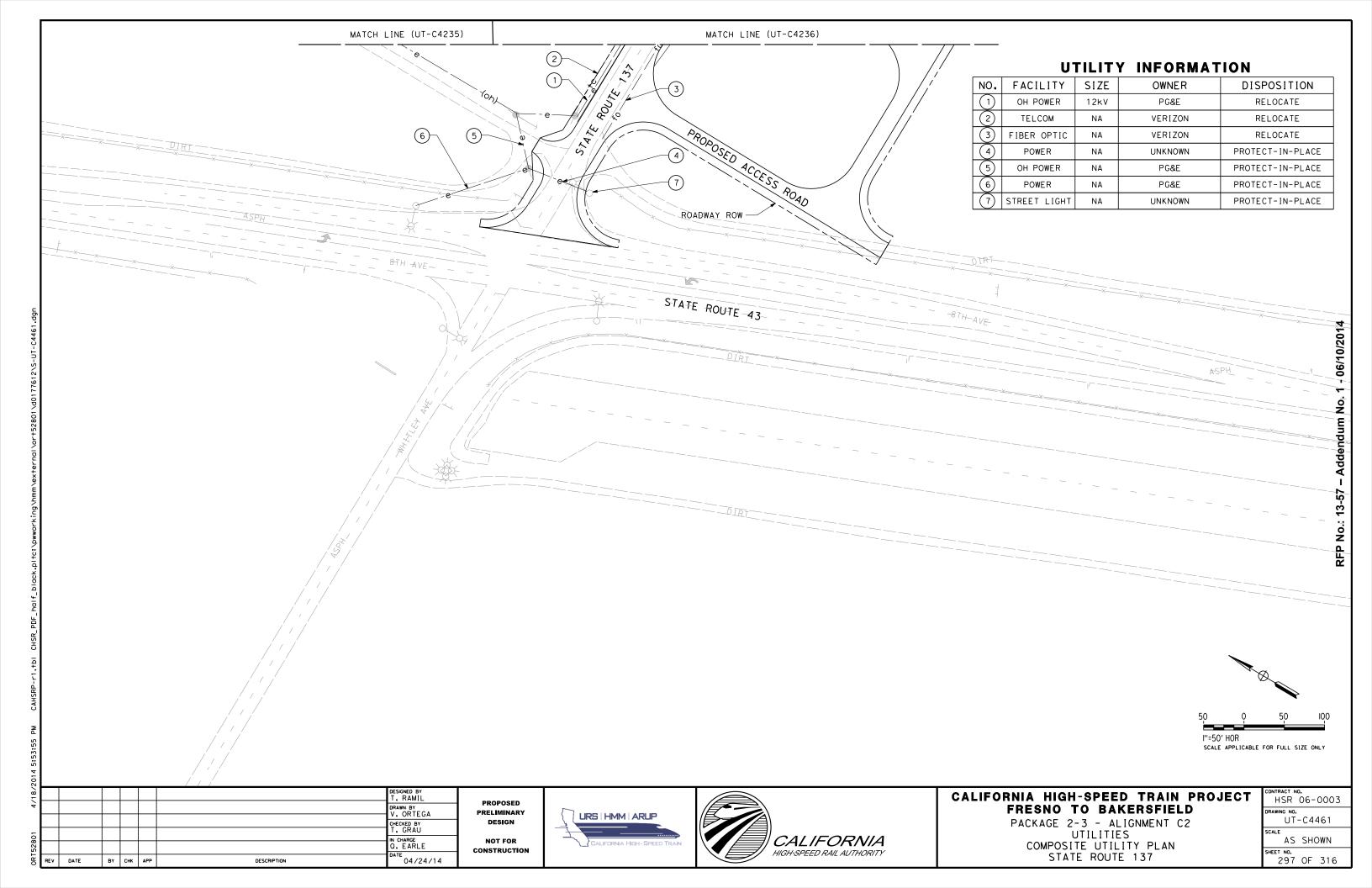


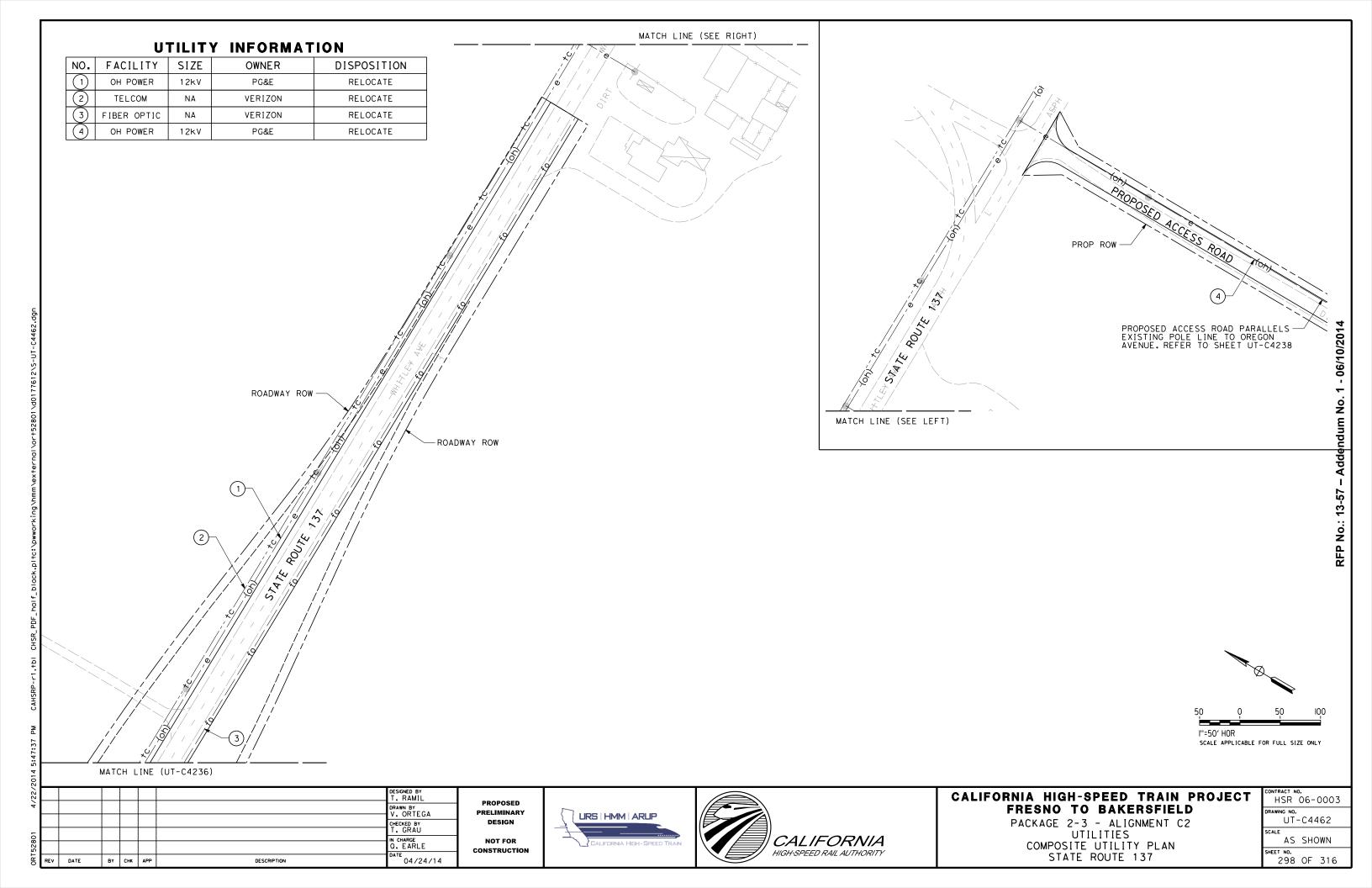


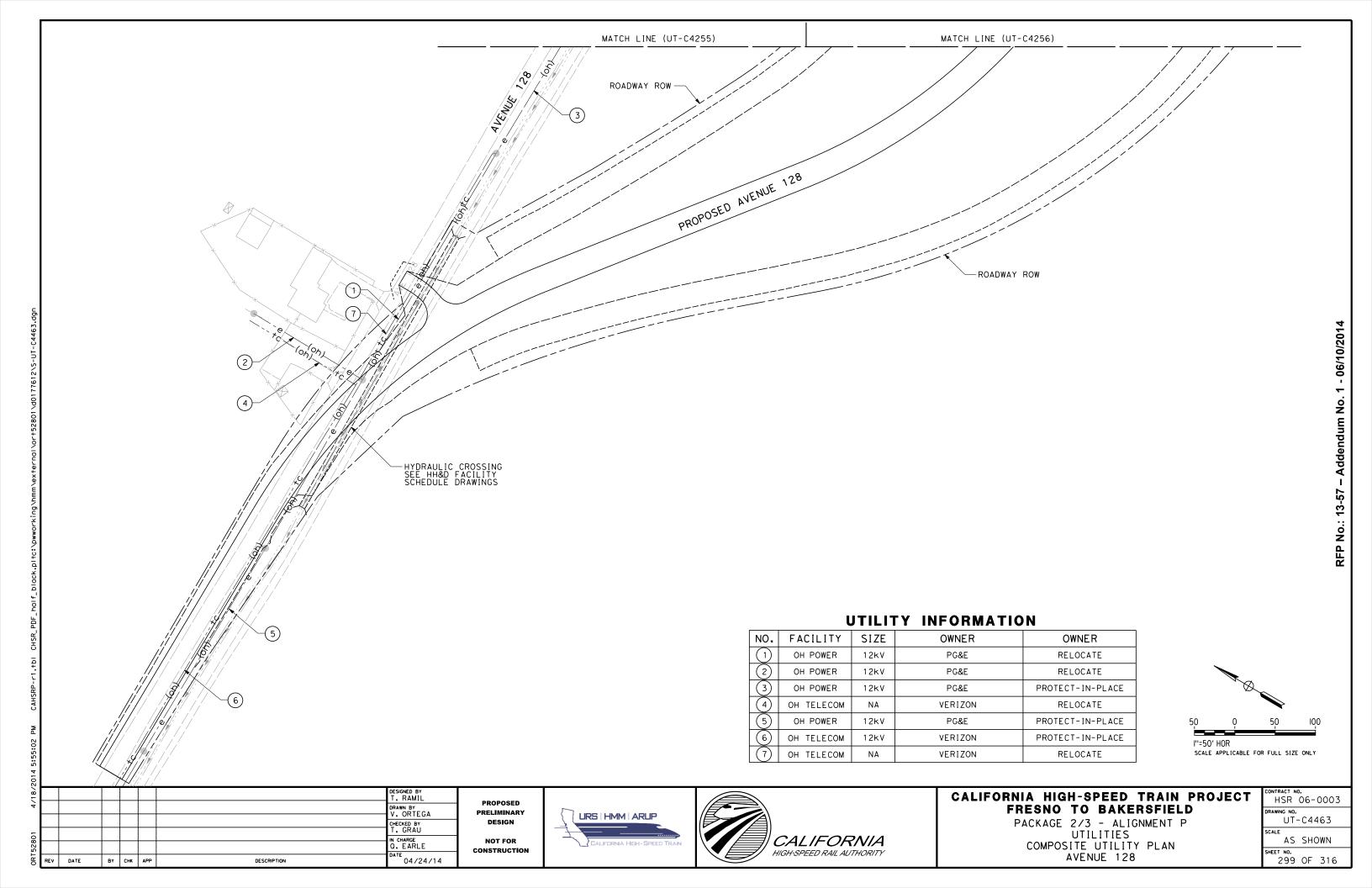


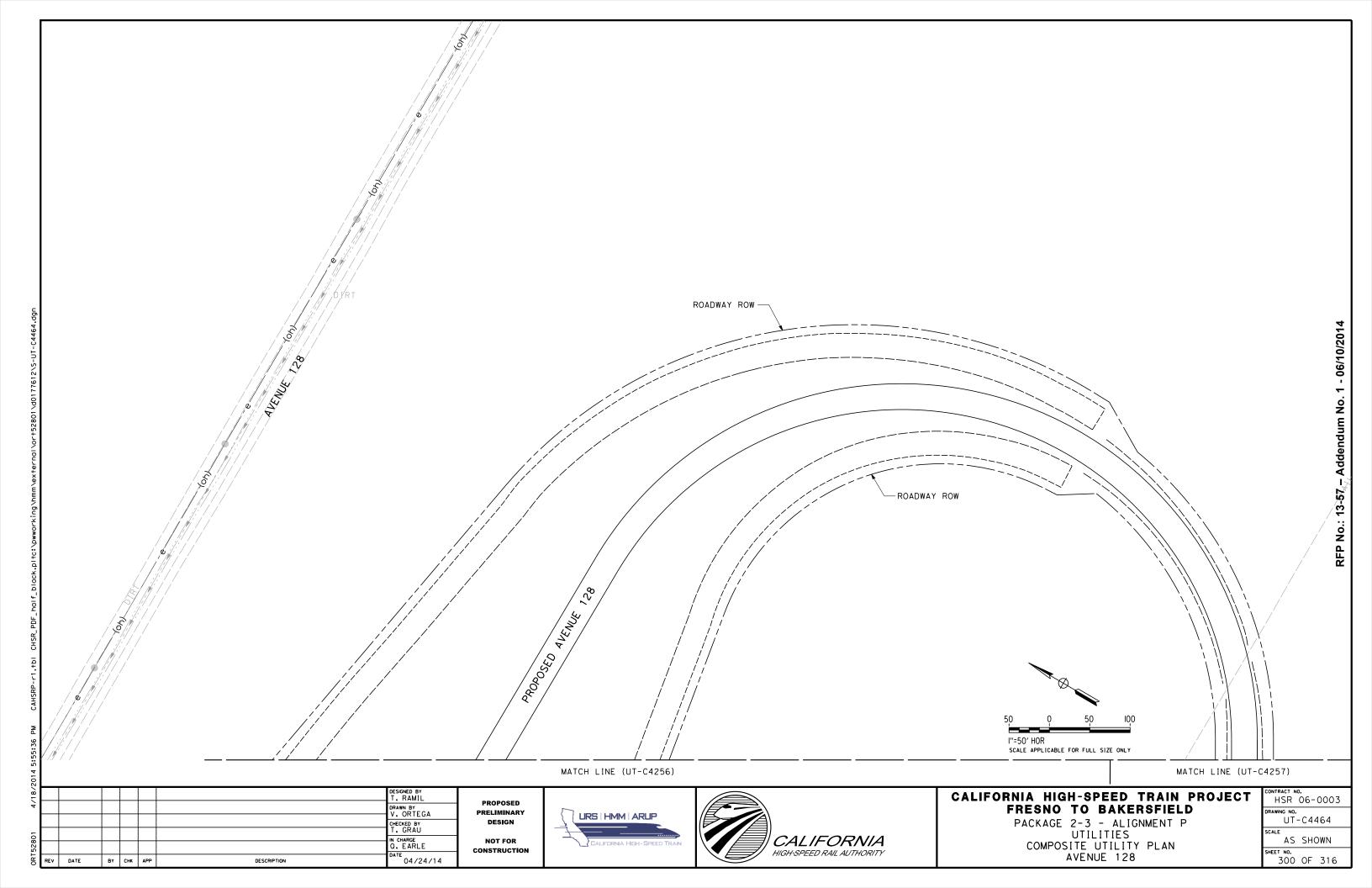


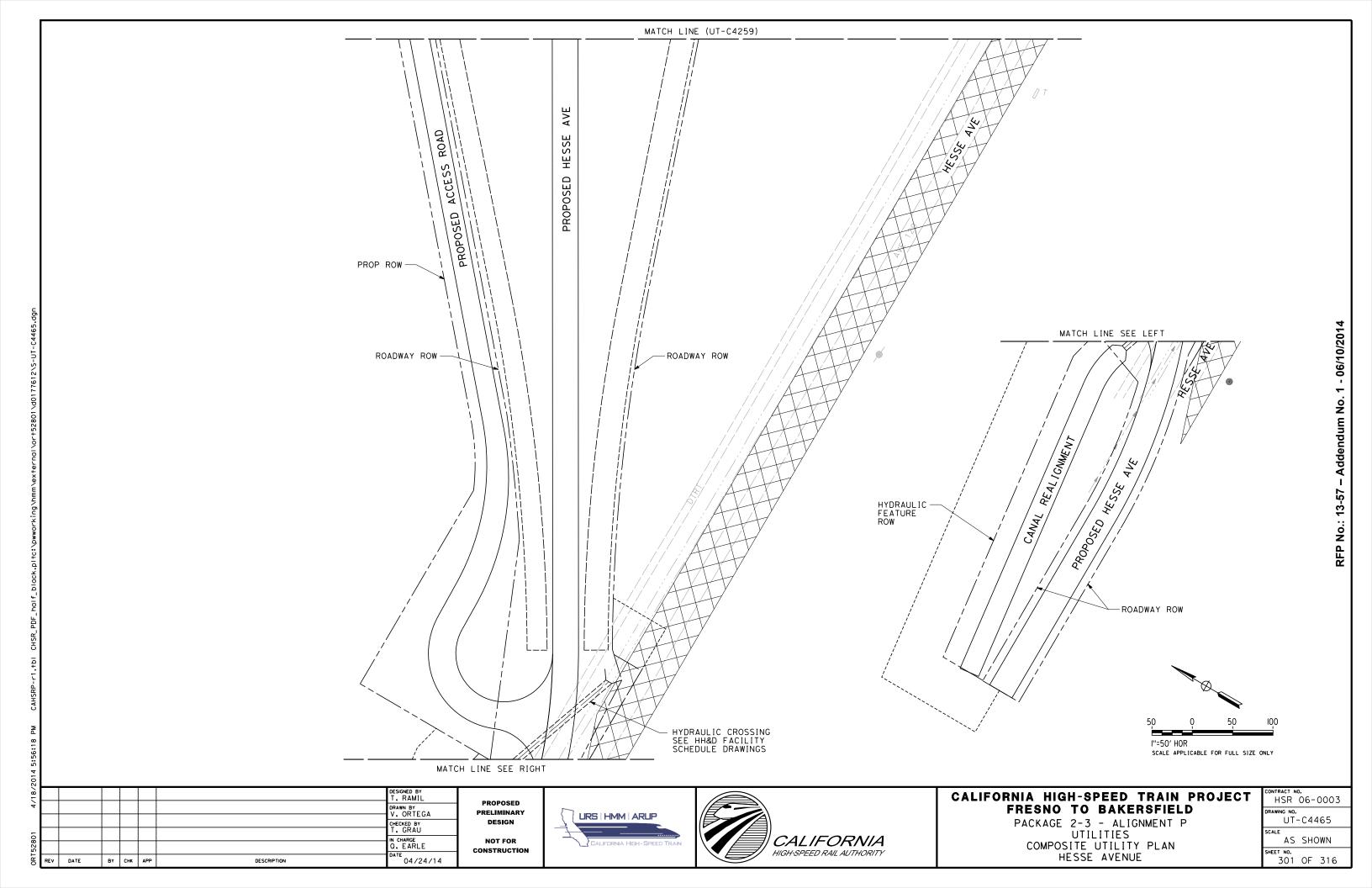


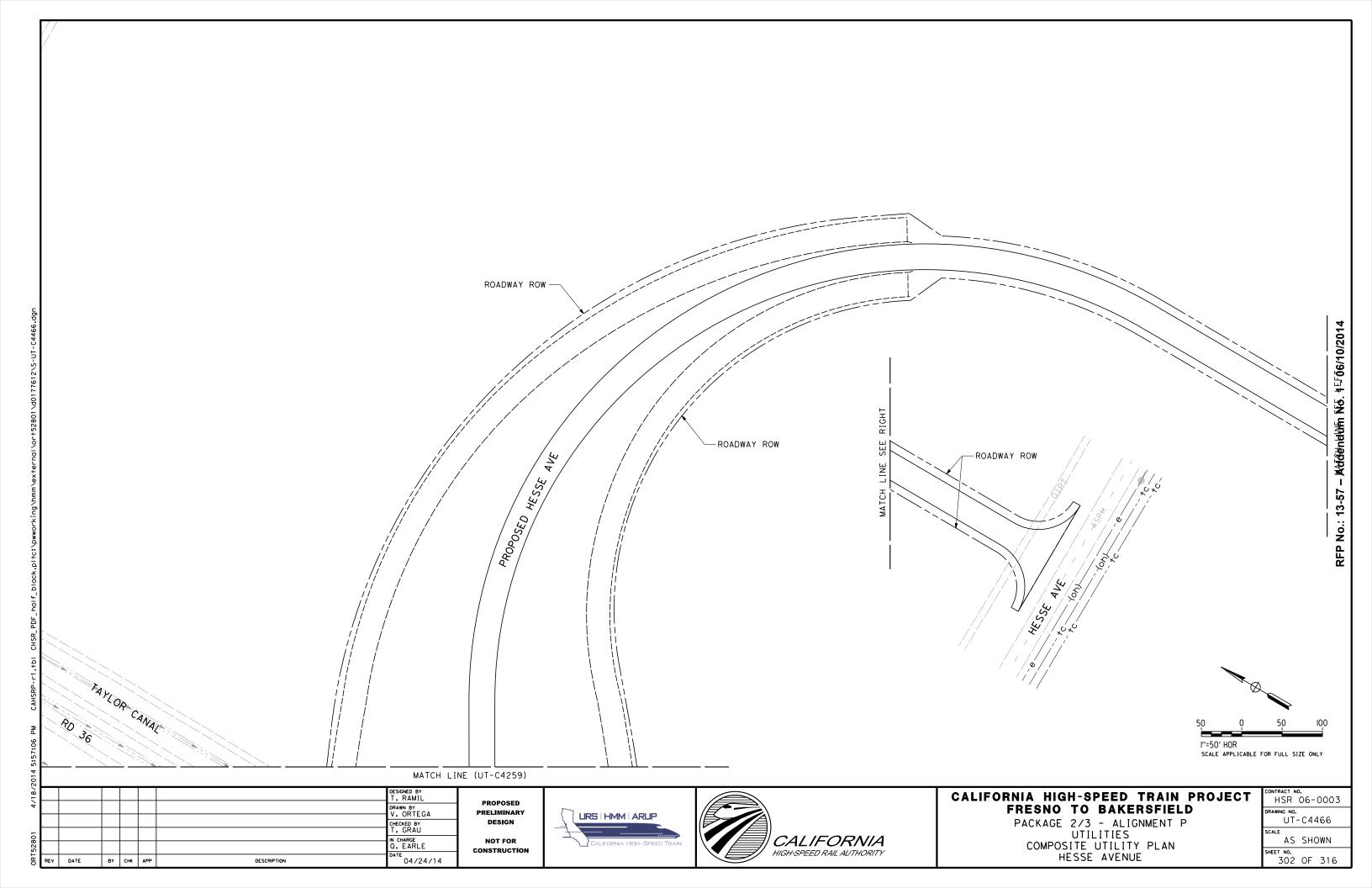


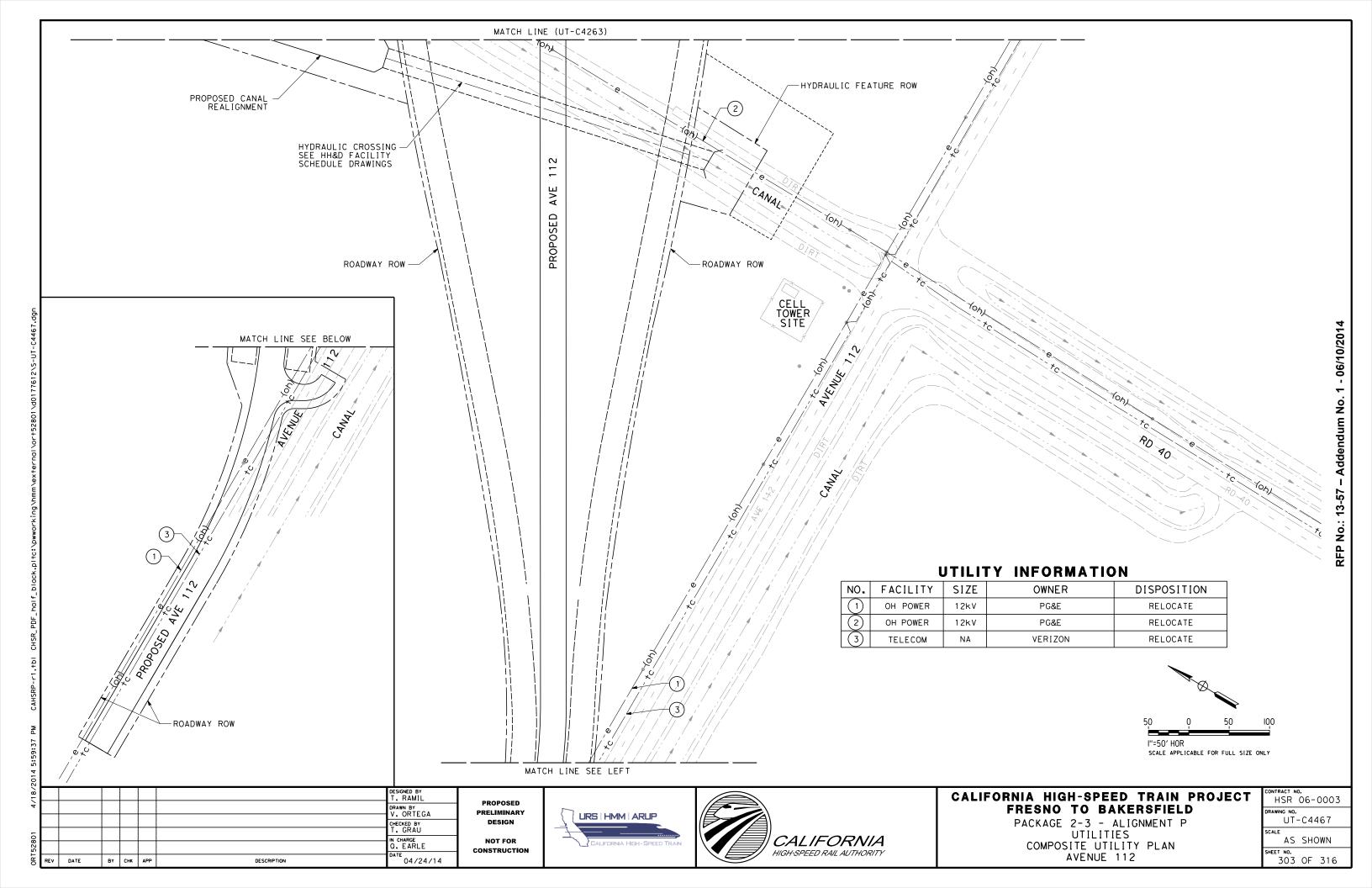


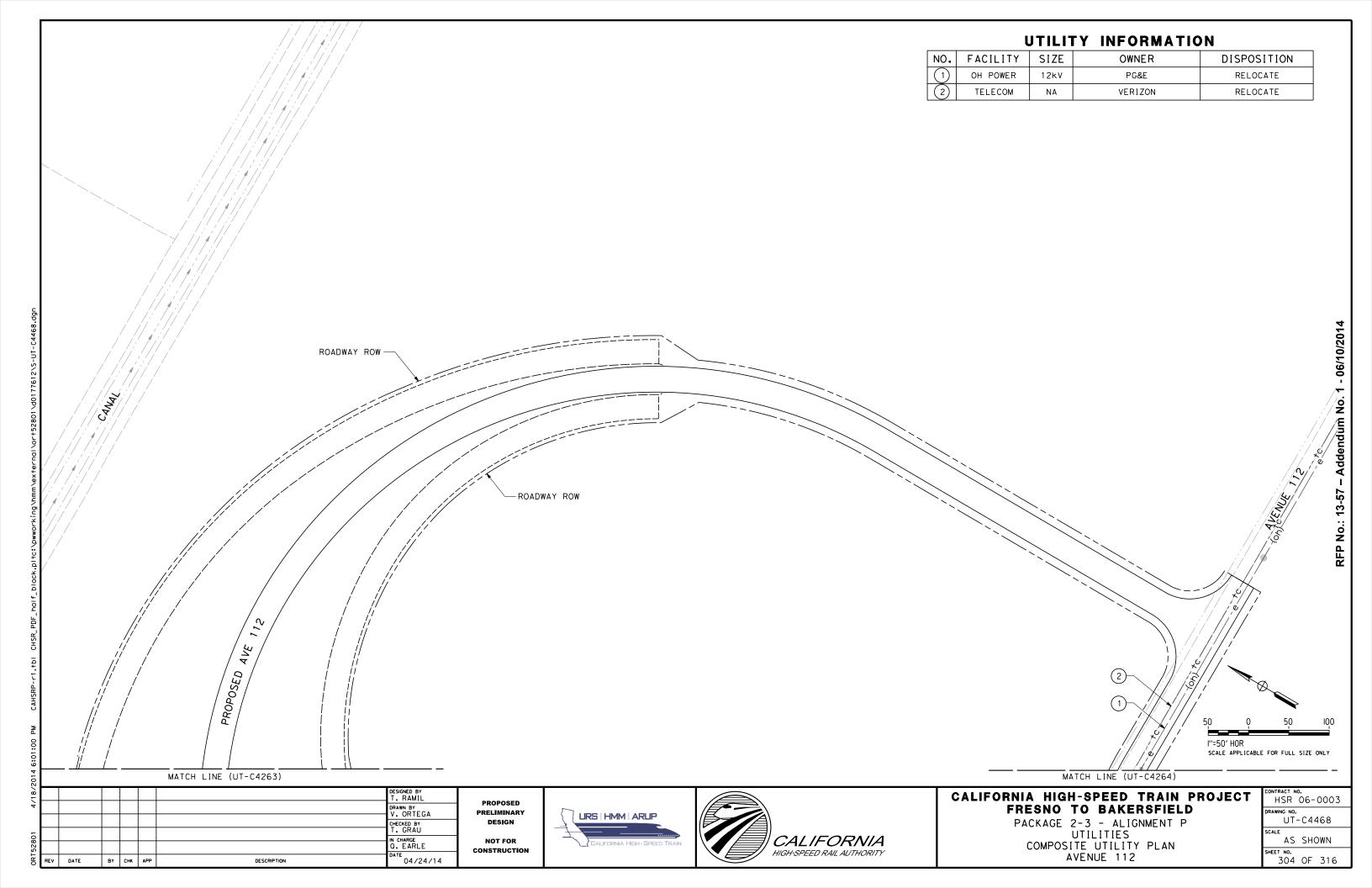


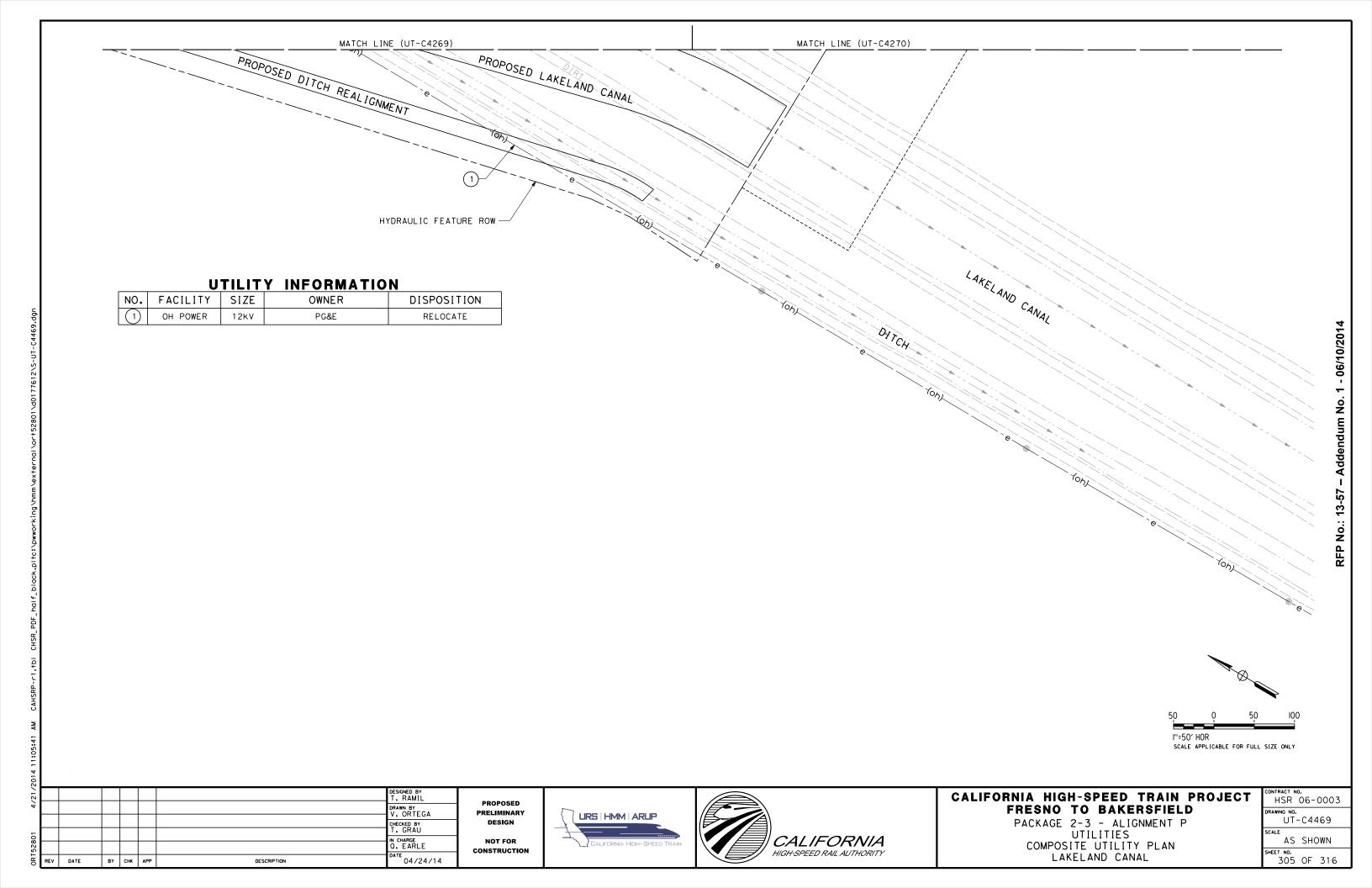


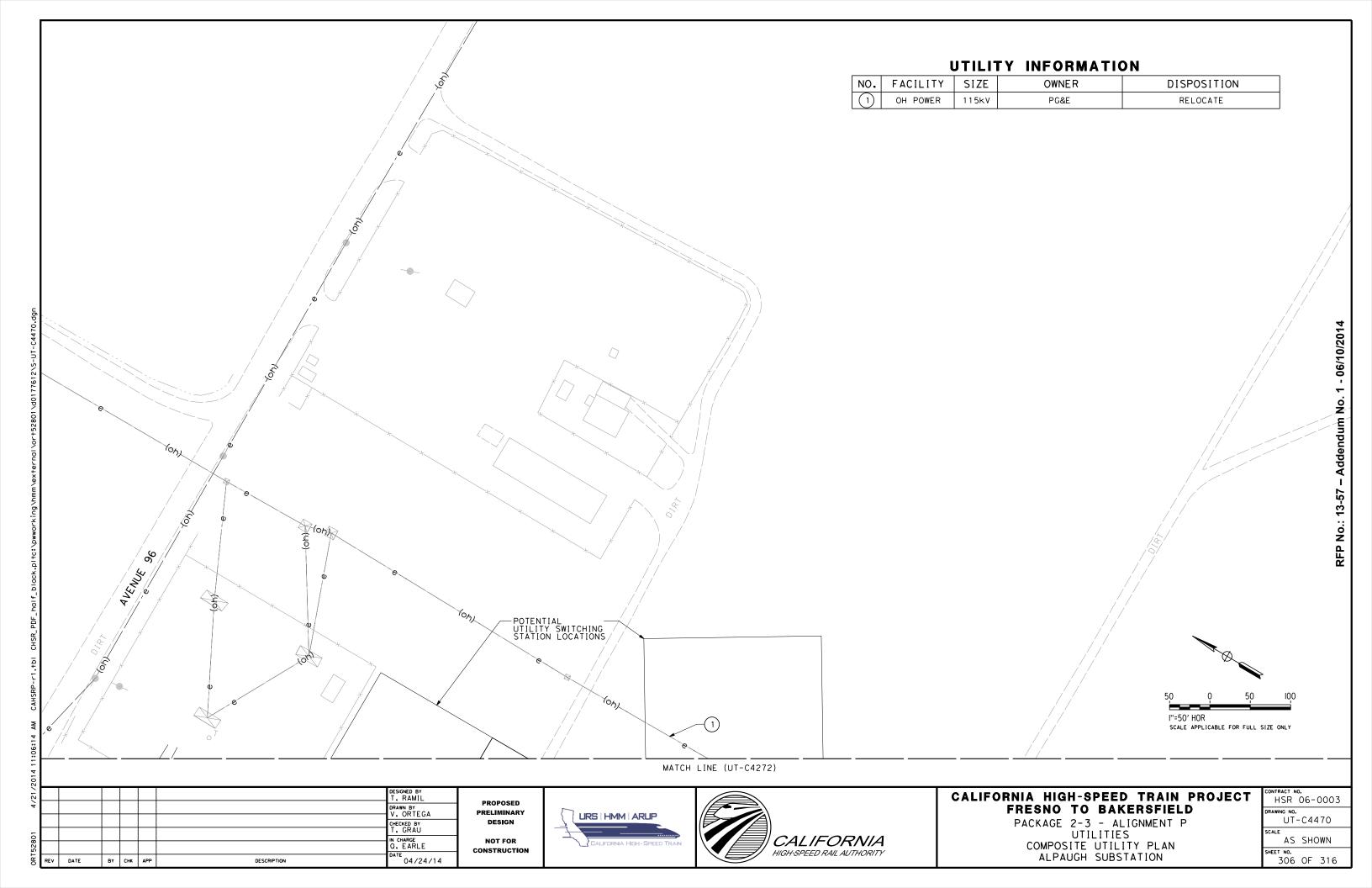


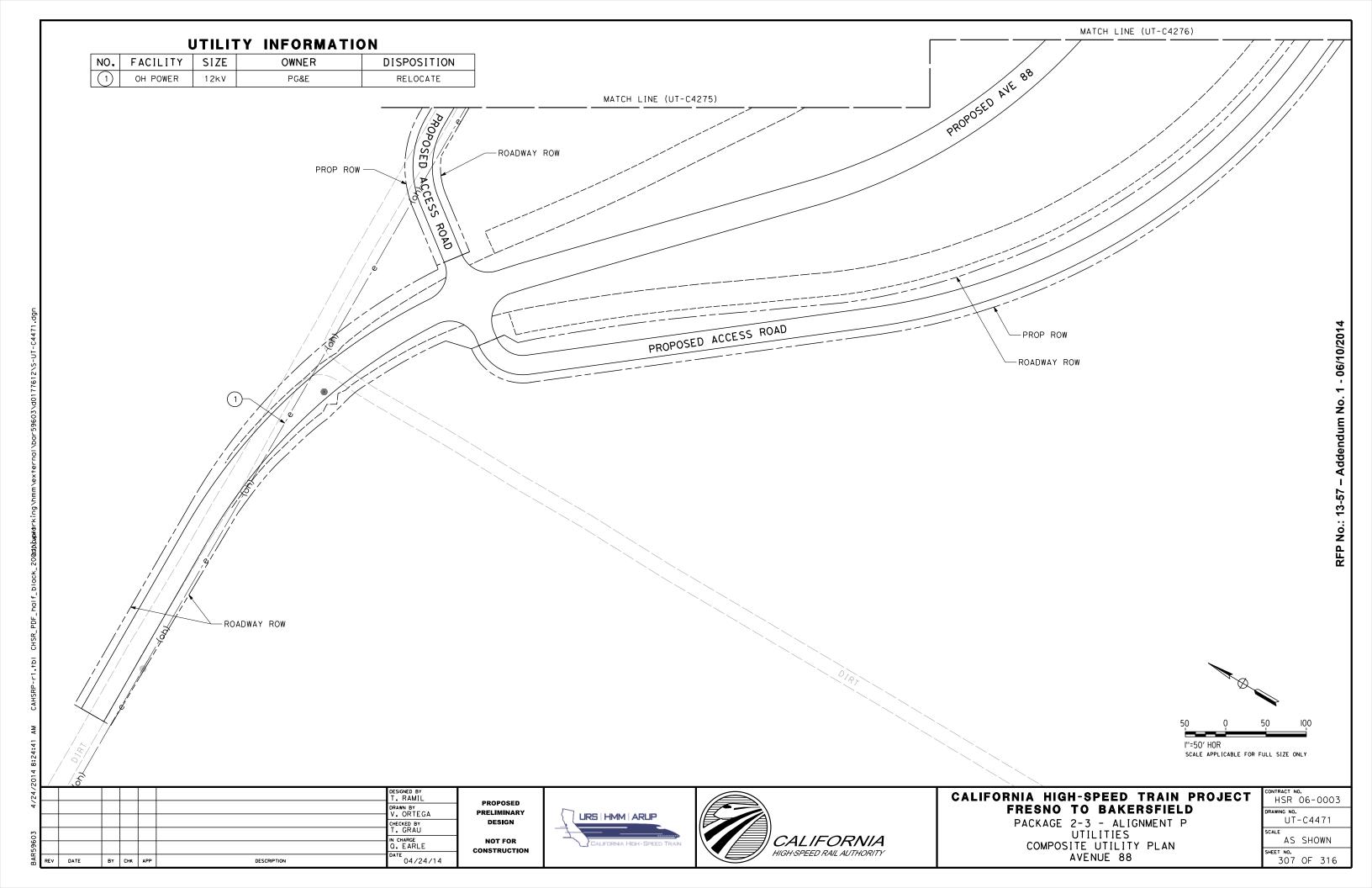


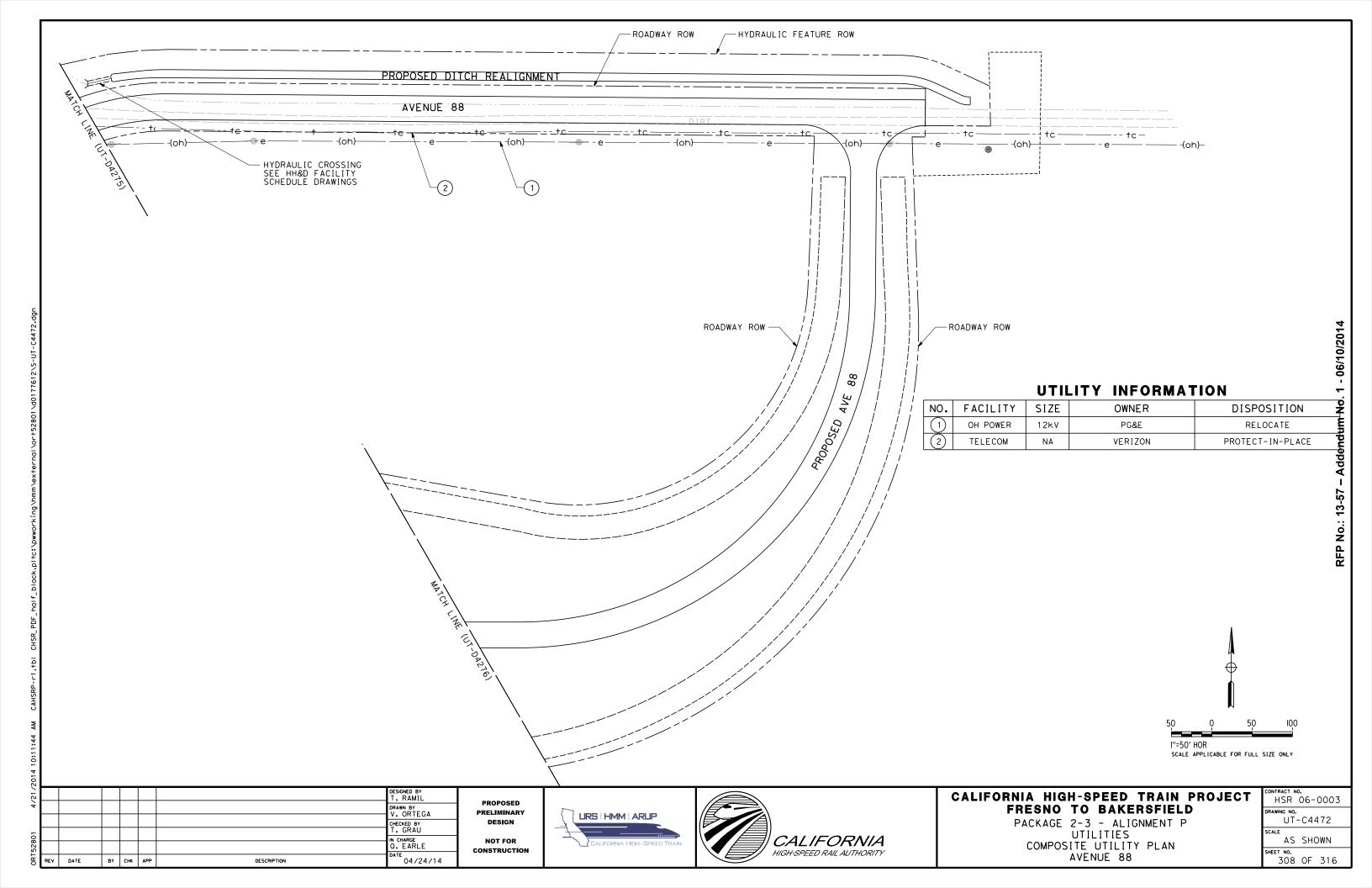


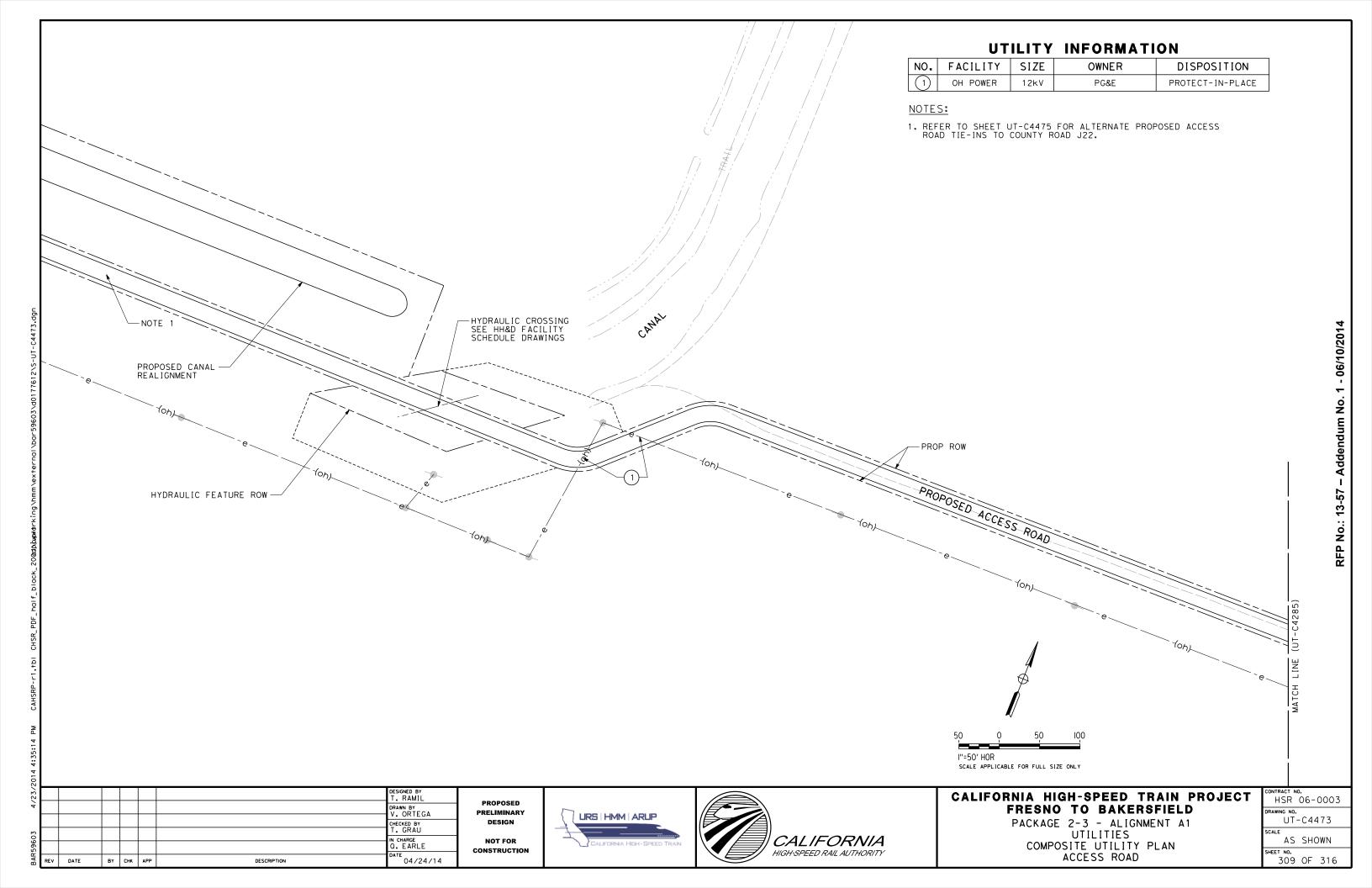


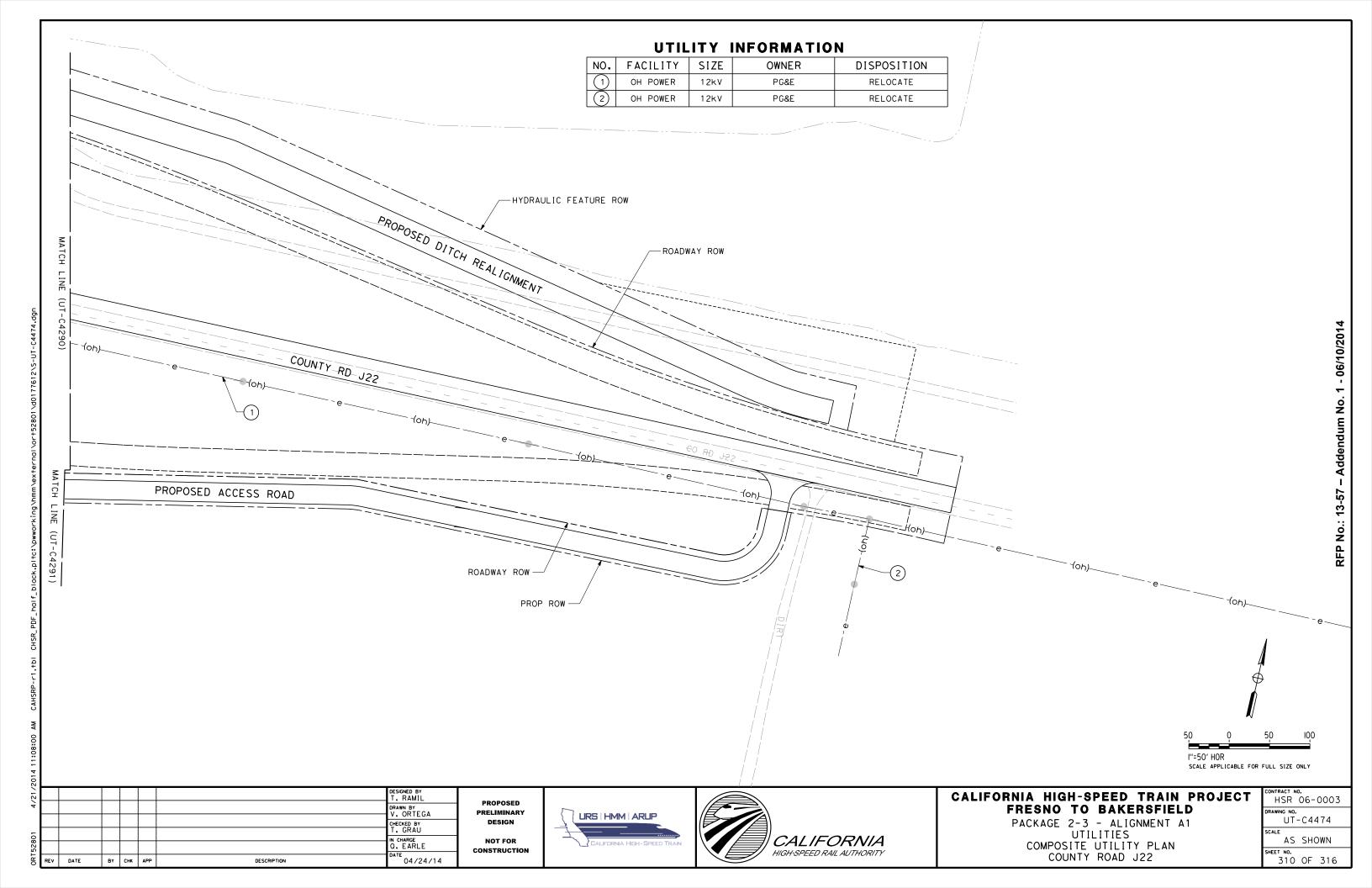


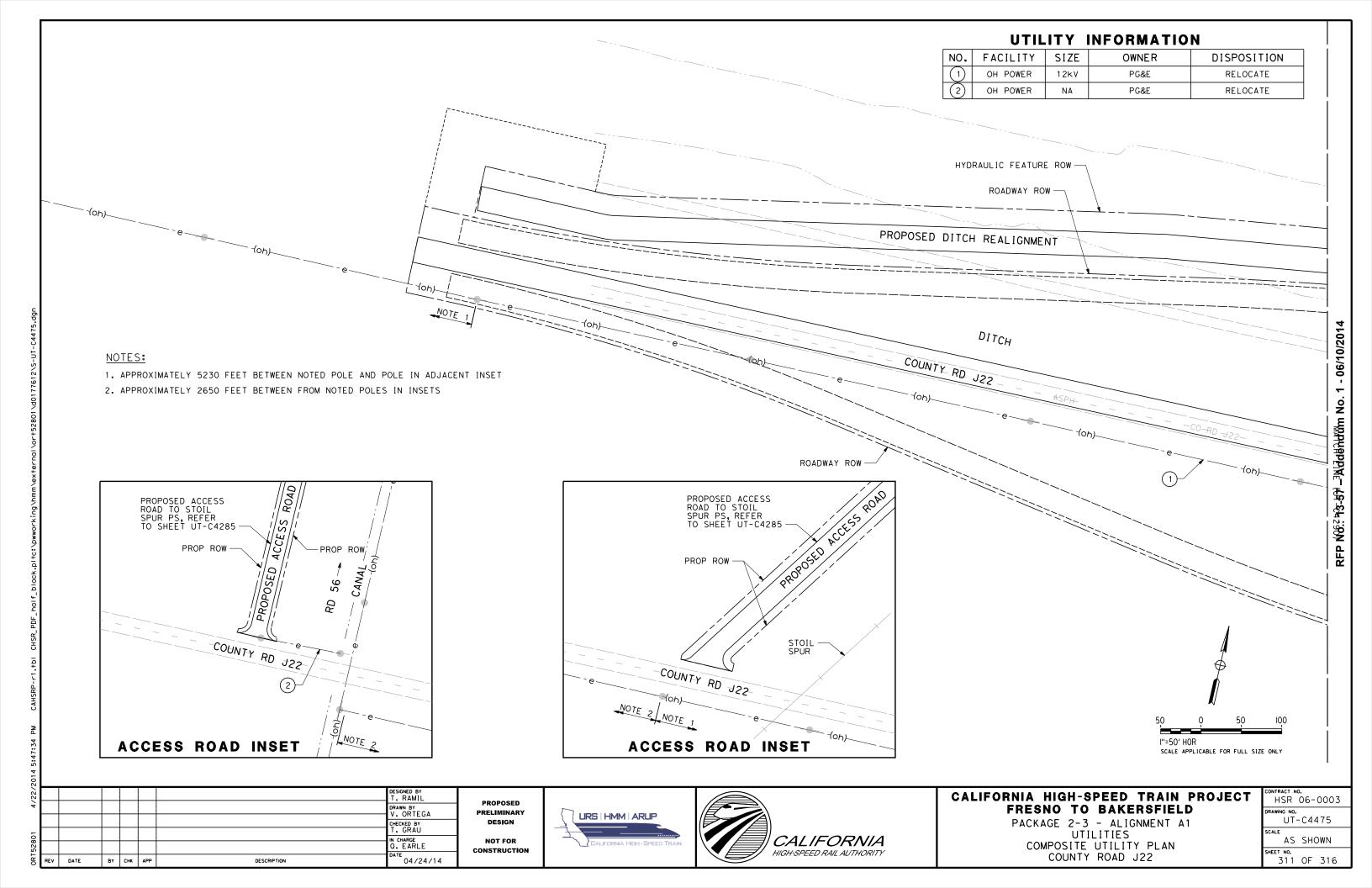












S	
Ĕ	REV
ORT52801	
01	
4	
.55/	
4/22/2014	
-	
:46	

ZONE	COUNTY	HST ALIGN	EASTING	NORTHING	POINT ID	STA #	PROPOSED FACILITY (INTERNAL WIDTH x INTERNAL HEIGHT)	PURPOSED/ EXISTING FEATURE CROSSED	CROSSING ANGLE (CLOCKWISE FROM NORTH)	ROW WIDTH WEST OF CL (FT)	ADDITIONAL DIST. EACH SIDE (FT)	TOTAL LENGTH OF CHANNEL SPANNED BY CULVERT (FT)	EXISTING ELEVATION (OF INV)	PROPOSED ELEVATION (OF TRACK)	DISTANCE TO TOP OF RAIL (FT)
Z4	FRE	F1	6341484.391	2122862.131	F-11	0603+67	36" RCP	UNKNOWN (EQUIVALENT TO ADJACENT BNSF)	90.00	450.00	0	528.00	289.84	301.56	11.72
Z4	FRE	F1	6341478.753	2122337.134	F-12	0608+92	4'x3' RCBC	UNKNOWN (EQUIVALENT TO ADJACENT BNSF)	90.00	450.00	0	528.00	289.52	301.28	11.76
Z4	FRE	F1	6341471.975	2121518.108	F-13	0617+11	8'x5' RCBC	WASHINGTON COLONY CANAL NO. 15	90.00	161.00	25	400.00	288.56	300.85	12.29
	T				T					1	1				ı
Z4	FRE	М	6341444.103	2118547.304	M-01	0650+00	9'x3' RCBC	WILSON NO. 230	90.00	121.00	N/A	296.00	290.46	300.31	9.8
Z4	FRE	М	6341427.199	2116855.294	M-02	0666+91	42" RCP	42" CIP TO OLDEANDER NORTH BRANCH NO. 17	90.00	90.50	N/A	226.00	290.38	302.08	11.70
Z4	FRE	М	6341381.966	2110720.235	M-03	0728+28	4'x3'RCBC	PRIVATE FACILITY (EQUIVALENT TO ADJACENT BNSF)	90.00	68.00	N/A	242.00	282.98	294.08	11.10
Z4	FRE	М	6341397.563	2109913.12	M-04	0736+35	15'x6'RCBC	WRISTEN DITCH	90.00	68.00	N/A	297.00	281.08	293.53	12.45
Z4	FRE	М	6342792.641	2109728.549	*	0738+49, 1396' Lt	15'x6'RCBC	WRISTEN DITCH UNDER ROAD	N/A	N/A	N/A	42.00	N/A	N/A	N/A
Z4	FRE	М	6340150.652	2109739.83	*	0737+81, 1245' Rt	15'x6'RCBC	WRISTEN DITCH UNDER ROAD	N/A	N/A	N/A	75.00	N/A	N/A	N/A
Z4	FRE	М	6340023.395	2109645.041	*	0738+72, 1375' Rt	15'x6'RCBC	WRISTEN DITCH UNDER ROAD	N/A	N/A	N/A	50.00	N/A	N/A	N/A
Z4	FRE	М	6341421.369	2108801.973	M-05	0747+46	4'x3' RCBC	UNKNOWN (EQUIVALENT TO ADJACENT BNSF)	90.00	68.00	N/A	242.00	277.28	292.77	15.49
Z4	FRE	М	6341550.249	2104388.004	M-06	0791+63	5'x3' RCBC	KOHLER PIPELINE	91.00	68.00	N/A	283.00	278.84	289.76	10.91
Z4	FRE	М	6341392.729	2093788.883	M-07	0898+66	36" DBL RCP	UNNAMED DITCH?	102.00	68.00	25	201.00	279.26	285.8	6.54
Z4	FRE	М	6343204.812	2092354.365	M-08	0913+25	5'x6' RCBC	CULVERT EQUIVALENT TO ADJACENT BNSF FACILITY	90.00	103.00	N/A	200.00	273.9	285.52	11.62
Z4	FRE	М	6343884.45	2088971.094	M-09	0947+67	15'x6' RCBC	HARLAN STEVENS DITCH	111.00	75.00	N/A	308.00	267.39	284.95	17.56
Z4	FRE	М	6343989.41	2088535.138	M-10	0952+25	4'x3' RCBC	UNKNOWN (EQUIVALENT TO ADJACENT BNSF)	90.00	68.00	N/A	238.00	274.14	285.23	11.08
Z4	FRE	М	6345595.166	2088456.601	*	0957+01, 1538' Lt	15'x6' RCBC	HARLAN STEVENS DITCH UNDER ROAD	N/A	N/A	N/A	218.00	N/A	N/A	N/A
Z4	FRE	М	6344448.822	2086816.822	M-11	0970+05	12'x8' RCBC	DAVIS DITCH	98.00	68.00	N/A	298.00	274.5	287.5	13.00
Z4	FRE	М	6344455.624	2086794.505	M-12	0970+27	8'x4' RCBC	CULVERT EQUIVALENT TO ADJACENT BNSF FACILITY	97.00	68.00	N/A	298.00	278.17	287.53	9.36
Z4	FRE	М	6345225.467	2084203.357	M-13	0997+30	5'x4' RCBC	CULVERT EQUIVALENT TO ADJACENT BNSF FACILITY	90.00	68.00	N/A	245.00	277.99	290.85	12.85
Z4	FRE	М	6345672.825	2082702.911	M-14	1012+95	9'x7' DBL RCBC	ELKHORN DITCH	90.00	69.15	N/A	262.00	270.86	288.95	18.08
Z4	FRE	М	6347052.455	2083185.855	M-15	1012+28, 1460' Lt	9'x7' DBL RCBC	ELKHORN DITCH UNDER ROAD	N/A	N/A	N/A	156.00	N/A	N/A	N/A
Z4	FRE	М	6346635.035	2083008.685	M-16	1012+77, 1010' Lt	9'x7' DBL RCBC	ELKHORN DITCH UNDER ROAD	N/A	N/A	N/A	70.00	N/A	N/A	N/A
Z4	FRE	М	6345167.526	2082701.082	M-17	1011+53, 485' Rt	9'x7' DBL RCBC	ELKHORN DITCH UNDER ROAD	N/A	N/A	N/A	426.00	N/A	N/A	N/A
Z4	FRE	Н	6347937.128	2075790.021	H-01	1085+63	48" DBL RCP	PIPELINE (EQUIVALENT TO ADJACENT BNSF)	108.00	215	0	283	264.85	282.98	18.14
Z4	FRE	Н	6354364.093	2064165.943	H-02	1219+62	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	260.52	271.06	10.5
Z4	FRE	Н	6373468.103	2051157.571	H-03	1451+78	15'x15' TRPL RCBC	CROSSCUT WASTE	90.00	60	25	170	261.34	277.41	16.07
Z4	FRE	Н	6376148.225	2048851.408	H-04	1487+18	357' BRIDGE	COLE SLOUGH	103.00	40	N/A	N/A	N/A	298.33	40.72
Z4	FRE	Н	6378547.83	2046345.49	H-05	1521+88	714' BRIDGE	DUTCH JOHN CUT	83.00	40	N/A	N/A	N/A	300.55	32.16
Z4	KIN	Н	6382135.509	2041456.217	H-06	1582+59	644' BRIDGE	KINGS RIVER	90.00	40	N/A	N/A	N/A	301.31	39.09
Z4	KIN	Н	6382768.298	2040386.911	H-07	1595+00	283.5' BRIDGE	RIVERSIDE DITCH	74.00	40	0	80	268.38	297.22	28.85
Z4	KIN	Н	6383107.863	2039774.815	H-08	1601+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	50	0	100	268.48	293.055	24
Z4	KIN	Н	6383508.44	2039014.446	H-09	1610+59	10'x5' RCBC	UNNAMED DITCH	117.00	50	0	100	268.58	288.89	20.31
Z4	KIN	Н	6383795.43	2038441.793	H-10	1617+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	50	0	100	266.095	283.84	17.
Z4	KIN	Н	6386536.53	2030795.436	H-11	1698+40	15'x15' TRPL RCBC	PEOPLES DITCH	64.00	64	25	220	263.61	278.79	15.18
Z4	KIN	Н	6385307.749	2029759.573	H-12	1705+94, 1427' Rt	13'x9' DBL RCBC	CULVERT UNDER EXCELSIOR AVE, PEOPLE'S DITCH	N/A	110	25	330	N/A	N/A	N/A
Z4	KIN	Н	6389538.512	2018997.317	H-13	1817+04, 2032' Lt	12'x7' DBL RCBC	CULVERT UNDER SYSTEMS ROAD, EAST BRANCH PEOPLES DITCH	N/A	75	25	155	N/A	N/A	N/A
Z4	KIN	Н	6387497.414	2017452.215	H-14	1832+59	9'x7' DBL RCBC	EAST BRANCH PEOPLES DITCH	90.00	62	25	172	258.74	271.49	12.74
Z4	KIN	Н	6387408.578	2000448.89	H-15	2002+64	8'x5' DBL RCBC	SETTLERS CANAL WEST BRANCH	90.00	40	25	132	240.8	273.02	32.22
Z4	KIN	Н	6387407.288	2000175.025	H-16	2005+38	15' x14' TRPL RCBC	LAKESIDE DITCH	90.00	40	25	132	239.13	270.03	30.90
Z4	KIN	Н Н	6387349.417	1989034.957	H-18	2116+71	36" RCP	UNNAMED DITCH	90.00	60	0	120	234.34	244.14	9.79
	INITY	- ''	000,040.41	1505054.557	H-19	21101/1	30 NCI	CHA MALE DITCH	30.00			120	254.54	2-7.17	11.42

^{*} POINTS NOT INCLUDED IN RECORD SET 15% DESIGN SUBMISSION, FRESNO TO BAKERSFIELD, HYDROLOGY, HYDRAULICS, AND DRAINGE REPORT, DECEMBER 2013, APPENDIX B, HYDRAULIC CROSSINGS.

NOTES:

1. TABLE BASED ON RECORD SET 15% DESIGN SUBMISSION, FRESNO TO BAKERSFIELD, HYDROLOGY, HYDRAULICS AND DRAINAGE REPORT, DECEMBER 2013, APPENDIX B, HYDRAULIC CROSSING POINTS. UPDATED TO REFLECT DRAWING UPDATES INCLUDED IN DRAFT 15% DESIGN SUBMISSION, FRESNO TO BAKERSFIELD, ALIGNMENT PLANS, APRIL 2014, ROADWAY AND GRADE SEPARATION PLANS, APRIL 2014 AND STRUCTURE PLANS, DECEMBER 2013.

						DESIGNED BY T. RAMIL
4						DRAWN BY V. ORTEGA
_						CHECKED BY
0875						IN CHARGE Q. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	04/24/14

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN HH&D FACILITY SCHEDULE (SHEET 1 OF 5)

•	CONTRACT NO. HSR 06-0003
	DRAWING NO. UT-Y4500
	SCALE NO SCALE

- Addendum No. 1 - 06/10/2014

No.: 13-57

SHEET NO. 312 OF 316

						DESIGNED BY T. RAMIL
						DRAWN BY V. ORTEGA
						CHECKED BY T. GRAU
						IN CHARGE Q. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 04/24/14

HST

ALIGN

K4

K4

K4

K4

K4

K4

K4

K4

Κ4

K4

EASTING

6387326.501

6388967.699

6387282.676

6387152.021

6388557.034

6386323.923

6384504.368

6385010.776

6384375.093

6381864.032

6381285.227

6381142.407

6381134.065

6381096.752

6381259.303

6381325.668

6381428.75

6381524.681

6381642.895

6381657.228

6382439.378

6384276.536

6384234.587

6384965.72

6385311.159

6385764.444

6386219.074

6386714.827

6387077.777

6387430.996

NORTHING

1984373.116

1981734.228

1981460.637

1979125.783

1976447.242

1975098.939

1971644.768

1971174.599

1971184.36

1960199.41

1959149.952

1957474.253

1957329.869

1955168.354

1952520.465

1951884.98

1951192.111

1950598.228

1949943.767

1949868.218

1946749.377

1942828.681

1942230.352

1940839.058

1940228.778

1939452.054

1938676.6

1937827.805

1937209.786

1936603.56

POINT ID

K4-01

K4-02

K4-03

K4-04

K4-05

K4-06

K4-07

K4-08

K4-09

K4-10

K4-11

K4-12

K4-13

K4-14

K4-15

K4-16

K4-17

K4-18

K4-19

K4-20

K4-21

K4-22

K4-23

K4-24

K4-25

K4-26

K4-27

K4-28

STA#

2093+71.98

2120+00, 1671' Lt

2122+84.97

APPROX 2146+00

2169+69, 1874' Lt

2187+30.53

2226+25, 646' Rt

2228+72

2231+07, 594' Rt

2343+93, 439' Rt

2355+17.97

2371+99.95

2373+44.58

2395+06.87

2421+60.60

2427+99.43

2434+99.82

2441+01.42

2447+66.50

2448+43.39

2480+60.32

2523+00

2529+28.04

2544+99.93

2552+01.19

2561+00.50

2569+99.40

2579+82.40

2586+99.08

2594+00.70

ZONE

Z4

Ζ4

Z4

COUNTY

KIN

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION

PROPOSED FACILITY

(INTERNAL WIDTH

INTERNAL HEIGHT)

5'x4' DBL RCBC

8'x11' DBL RCBC

10'x8' DBL RCBC

Shortened ditch

15'x11' DBL RCBC

15'x11' DBL RCBC

18" PIPELINE

18" PIPELINE

18" PIPELINE

13'x6' RCBC

8'x4'RCBC

36" DBL RCP

36" DBL RCP

8'x7' DBL RCBC

9'x7' DBL RCBC

5'x3' RCBC

10'x3' RCBC

5'x3' RCBC

14'x6' RCBC

11'x8' DBL RCBC

322' BRIDGE

7'x15' RCBC

11'x7' DBL RCBC

5'x3' RCBC

10'x3' RCBC

5'x3' RCBC

10'x3' RCBC

13'x16' 4x RCBC

5'x3' RCBC

5'x3' RCBC





CROSSING

ANGLE

(CLOCKWISE

FROM NORTH)

90.00

N/A

88.00

90

N/A

77.00

N/A

88.00

N/A

N/A

83.00

86.00

86.00

91.00

96.00

90.00

90.00

90.00

101.00

101.00

83.00

N/A

64.00

90.00

90.00

90.00

90.00

90.00

90.00

90.00

PURPOSED/ EXISTING FEATURE CROSSED

UNNAMED DITCH

CULVERT UNDER IDAHO AVE, LAKESIDE DITCH - EUCALPYPTUS BRANCH

LAKESIDE DITCH - EUCALYPTUS BRANCH

UNNAMED DITCH

CULVERT UNDER JACKSON AVE, MELGA CANAL

MELGA CANAL

UNDER SR 43

BURR PIPELINE

UNDER JERSEY AVE

CULVERT UNDER KANSAS AVE, WEST FORK OF EAST BRANCH, LAKESIDE DITCH

UNNAMED DITCH

BATTI BASIN

BATTI BASIN

WREDEN DITCH (SALVADOR DITCH)

UNNAMED CANAL

PERIODIC HYDRAULIC RELIEF

WILDLIFE CROSSING STRUCTURE

PERIODIC HYDRAULIC RELIEF

UNNAMED CANAL

MCCANN NO.1 CANAL (SALVADOR DITCH)

CROSS CREEK

CULVERT UNDER SYSTEMS ROAD

MCCANN NO. 2 DITCH

PERIODIC HYDRAULIC RELIEF

WILDLIFE CROSSING STRUCTURE

PERIODIC HYDRAULIC RELIEF

WILDLIFE CROSSING STRUCTURE

WEST BRANCH LAKELAND CANAL

PERIODIC HYDRAULIC RELIEF

PERIODIC HYDRAULIC RELIEF

ROW WIDTH

WEST OF CL

(FT)

64

N/A

65

65

N/A

65

N/A

64

N/A

N/A

72

69

69

64

73

78

84

40

40

40

40

50

50

50

50

50

60

60

ADDITIONAL

DIST. EACH

SIDE (FT)

25

N/A

25

N/A

25

N/A

25

N/A

N/A

25

25

25

25

25

25

0

0

0

25

N/A

0

N/A

0

0

0

25

0

0

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN HH&D FACILITY SCHEDULE (SHEET 2 OF 5)

TOTAL LENGTH

OF CHANNEL

SPANNED BY

CULVERT (FT)

179

78

180

N/A

53

190

88

160

84

500

196

140

142

244

227

184

193

203

232

232

N/A

94

N/A

100

100

100

100

150

120

120

EXISTING

ELEVATION

(OF INV)

180

N/A

226.3

N/A

N/A

211.66

N/A

214.73

N/A

N/A

203.56

198.68

198.68

194.94

193.99

197.99

196.85

197.34

192.9

191.76

N/A

N/A

192.62

198.5

199.5

199.46

194.21

193.57

195.38

195.44

PROPOSED

ELEVATION

(OF TRACK)

240.6

N/A

238.39

N/A

N/A

232.29

N/A

228.54

N/A

N/A

217.98

216.57

216.45

214.64

212.46

213.1

215.73

219.32

223.41

223.89

230

N/A

227.69

221.14

218.1

214.21

210.32

206.35

205.45

205.98

DISTANCE TO

TOP OF RAIL

(FT)

13.60

N/A

12.09

N/A

N/A

20.63

N/A

13.81

N/A

N/A

14.42

17.89

17.77

19.70

18.47

15.11

18.88

21.99

30.51

32.13

40.69

N/A

35.07

22.64

18.60

14.75

16.11

12.78

10.08

10.54

.: 13-57

1	CONTRACT NO.
	HSR 06-0003
	DRAWING NO.
	UT-Y4501
	SCALE
	AS SHOWN

313 OF 316

Z4 KIN Z4 TUL Z4 TUL	C2	6387922.566 6388276.232 6388768.418 6389114.375 6389355.903 6391305.953 6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556 6396790.235	1935762.758 1935158.919 1933548.908 1933778.186 1933852.295 1933770.15 1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-01 C2-02 C2-03 C2-04 C2-05 C2-06 C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2600+00.21 2607+00.21 2623+19, 417' Rt 2623+78, 243' Lt 2635+66, 1823' Lt 2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05 2702+99.93	5'x3' RCBC 5'x3' RCBC 10'x5' DBL RCBC 15'x15' TRPL RCBC 15'x22' 4x RCBC 14'x20' 4x RCBC 15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	PERIODIC HYDRAULIC RELIEF PERIODIC HYDRAULIC RELIEF CULVERT UNDER NEVADA AVE ACCESS ROAD, UNNAMED DITCH BEAN DITCH CULVERT UNDER NEVADA AVE, SWEET CANAL CULVERT UNDER SYSTEMS ROAD, BEAN DITCH CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE	90.00 90.00 N/A N/A N/A N/A N/A 90.00 90.00 90.00	67 59 N/A 65 N/A N/A N/A 70 70 60	0 0 N/A N/A N/A N/A 0 0	127 120 152 303 293 126 155 140	195.7 196 N/A 196.48 N/A N/A N/A 193.8	206.75 207.3 N/A 208.46 N/A N/A N/A 209.39	11.05 11.30 N/A 11.98 N/A N/A N/A 15.59
Z4 KIN Z4 TUL	C2	6388768.418 6389114.375 6389355.903 6391305.953 6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1933548.908 1933778.186 1933852.295 1933770.15 1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-03 C2-04 C2-05 C2-06 C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2623+19, 417' Rt 2623+70 2623+78, 243' Lt 2635+66, 1823' Lt 2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	10'x5' DBL RCBC 15'x15' TRPL RCBC 15'x22' 4x RCBC 14'x20' 4x RCBC 15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	CULVERT UNDER NEVADA AVE ACCESS ROAD, UNNAMED DITCH BEAN DITCH CULVERT UNDER NEVADA AVE, SWEET CANAL CULVERT UNDER SYSTEMS ROAD, BEAN DITCH CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	N/A N/A N/A N/A N/A 90.00 90.00	N/A 65 N/A N/A N/A 70	N/A N/A N/A N/A N/A O	152 303 293 126 155 140 140	N/A 196.48 N/A N/A N/A 193.8	N/A 208.46 N/A N/A N/A	N/A 11.98 N/A N/A N/A 15.59
Z4 KIN Z4 TUL	C2	6389114.375 6389355.903 6391305.953 6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1933778.186 1933852.295 1933770.15 1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-04 C2-05 C2-06 C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2623+10 2623+78, 243' Lt 2635+66, 1823' Lt 2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	15'x15' TRPL RCBC 15'x22' 4x RCBC 14'x20' 4x RCBC 15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	BEAN DITCH CULVERT UNDER NEVADA AVE, SWEET CANAL CULVERT UNDER SYSTEMS ROAD, BEAN DITCH CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	N/A N/A N/A N/A 90.00 90.00	65 N/A N/A N/A 70 70	N/A N/A N/A N/A O	303 293 126 155 140 140	196.48 N/A N/A N/A N/A 193.8	208.46 N/A N/A N/A	11.98 N/A N/A N/A 15.59
Z4 KIN Z4 TUL	C2	6389355.903 6391305.953 6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1933852.295 1933770.15 1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-05 C2-06 C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2623+78, 243' Lt 2635+66, 1823' Lt 2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	15'x22' 4x RCBC 14'x20' 4x RCBC 15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	CULVERT UNDER NEVADA AVE, SWEET CANAL CULVERT UNDER SYSTEMS ROAD, BEAN DITCH CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	N/A N/A N/A 90.00 90.00 90.00	N/A N/A N/A 70 70	N/A N/A N/A 0	293 126 155 140 140	N/A N/A N/A 193.8	N/A N/A N/A	N/A N/A N/A 15.59
Z4 KIN Z4 TUL	C2 N	6391305.953 6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1933770.15 1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-06 C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2635+66, 1823' Lt 2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	14'x20' 4x RCBC 15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	CULVERT UNDER SYSTEMS ROAD, BEAN DITCH CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	N/A N/A 90.00 90.00 90.00	N/A N/A 70 70	N/A N/A 0	126 155 140 140	N/A N/A 193.8	N/A N/A	N/A N/A 15.59
Z4 KIN Z4 TUL	N C2	6387661.987 6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1933801.338 1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-07 C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2615+46, 1324' Rt 2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	15'x17' 3xRCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	CULVERT UNDER NEVADA AVE ACCESS ROAD, BEAN DITCH WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	N/A 90.00 90.00 90.00	N/A 70 70	N/A 0 0	155 140 140	N/A 193.8	N/A	N/A 15.59
Z4 KIN Z4 TUL	N C2	6389768.952 6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1932790.361 1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-08 C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2635+00.38 2649+99.72 2664+99.96 2676+99.95 2688+57.05	10'x3' RCBC 10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	90.00 90.00 90.00	70 70	0	140 140	193.8	· · · · · · · · · · · · · · · · · · ·	15.59
Z4 KIN Z4 TUL	N C2	6390647.277 6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1931575.38 1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-09 C2-10 C2-11 C2-12 C2-13 C2-14	2649+99.72 2664+99.96 2676+99.95 2688+57.05	10'x3' RCBC 10'x3' RCBC 10'x3' RCBC	WILDLIFE CROSSING STRUCTURE WILDLIFE CROSSING STRUCTURE	90.00 90.00	70	0	140		209.39	
Z4 KIN Z4 TUL	N C2	6391580.185 6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1930400.639 1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-10 C2-11 C2-12 C2-13 C2-14	2664+99.96 2676+99.95 2688+57.05	10'x3' RCBC 10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00		<u> </u>		102.60		
Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 TUL	N C2	6392364.38 6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1929492.41 1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-11 C2-12 C2-13 C2-14	2676+99.95 2688+57.05	10'x3' RCBC			60	0		193.68	206.38	12.69
Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 TUL	N C2 N C2 N C2 N C2 N C2 N C2 L C2 L C2	6393151.934 6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1928643.981 1927622.796 1926575.459 1894411.793 1925596.254	C2-12 C2-13 C2-14	2688+57.05		WILDLIFE CROSSING STRUCTURE				120	193.84	203.36	9.52
Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 TUL	N C2 N C2 N C2 N C2 N C2 L C2 L C2	6394170.398 6395244.216 6411649.942 6396245.161 6397358.556	1927622.796 1926575.459 1894411.793 1925596.254	C2-13 C2-14		14'x6' RCBC		90.00	60	0	120	194.24	204.25	10.00
Z4 KIN Z4 KIN Z4 KIN Z4 KIN Z4 TUL	C2	6395244.216 6411649.942 6396245.161 6397358.556	1926575.459 1894411.793 1925596.254	C2-14	2702+99.93		UNNAMED DITCH	90.00	60	25	170	194.63	205.24	10.61
Z4 KIN Z4 KIN Z4 TUL	C2 N C2 N C2 L C2 L C2	6411649.942 6396245.161 6397358.556	1894411.793 1925596.254			10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	61	0	120	195.34	206.47	11.14
Z4 KIN Z4 KIN Z4 TUL	C2 N C2 L C2 L C2	6396245.161 6397358.556	1894411.793 1925596.254	+	2717+99.93	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	65	0	130	194.9	207.76	12.86
Z4 KIN Z4 TUL	C2 L C2 L C2	6397358.556	1925596.254	C2-15	2730+08, 238' Lt	16'x21' 4xRCBC	CULVERT UNDER NILES AVE, SWEET CANAL	N/A	N/A	N/A	170	N/A	N/A	N/A
Z4 TUL	L C2 L C2			C2-16	2731+91	16'x21' 4xRCBC	SWEET CANAL	90.00	65	25	180	194.65	208.95	14.30
Z4 TUL	L C2	6396790 235	1924447.526	C2-17	2748+00.10	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	65	0	136	196.66	210.32	13.66
Z4 TUL	L C2		1923211.381	C2-18	2753+40, 1252' Rt	15'x6' RCBC	CULVERT UNDER ORANGE AVE TURNOUT, NORTH CORCORAN DITCH	N/A	N/A	N/A	40	N/A	N/A	N/A
Z4 TUL		6398328.322	1923345.269	C2-19	2762+68.41	11'x8' DBL RCBC	AX CANAL AND CULVERT EXTENDED UNDER ROAD	N/A	65	N/A	260	195.23	211.19	N/A
Z4 TUL	L C2	6397838.687	1923340.943	C2-20	2759+47, 382' Rt	15'x14' 4x RCBC	CULVERT UNDER ORANGE AVE, SWEET CANAL	N/A	N/A	N/A	482	N/A	N/A	N/A
Z4 TUL Z4 TUL Z4 TUL Z4 TUL Z4 TUL	L C2	6399346.677	1924151.13	C2-21	2763+03, 1297' Lt	11'x8' DBL RCBC	CULVERT UNDER ORANGE AVE TURNOUT,AX CANAL	N/A	N/A	N/A	90	N/A	N/A	N/A
Z4 TUL Z4 TUL Z4 TUL		6397661.257	1923294.452	C2-22	2755+67, 542' Rt	13'x6' DBL RCBC	CULVERT UNDER ORANGE AVE, NORTH CORCORAN DITCH	N/A	N/A	N/A	359	N/A	N/A	N/A
Z4 TUL Z4 TUL Z4 TUL		6399528.901	1921831.781	C2-23	2782+00.58	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	65	0	130	196.85	210.56	13.71
Z4 TUL Z4 TUL		6400422.52	1920566.135	C2-24	2797+50.04	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	65	0	130	197.01	210.01	13.00
Z4 TUL		6401780.998	1918351.387	C2-25	2823+48.94	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	196.53	208.24	11.71
		6402504.442	1916979.555	C2-26	2839+00.00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	196.4	206.28	9.87
		6403222.071	1915433.741	C2-27	2856+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	195.33	205.56	10.23
Z4 TUL		6403602.663	1914514.101	C2-28	2865+99.79	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.75	205.6	10.85
Z4 TUL		6403956.028	1913578.513	C2-29	2875+99.93	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.51	205.63	11.12
Z4 TUL		6404276.887	1912630.252	C2-30	2886+01.09	12'x8' DBL RCBC	UNKNOWN CANAL	109.00	65	25	188	190.48	205.66	15.19
Z4 TUL	L C2	6404489.753	1911963.562	C2-31	2893+00.98	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.22	205.69	11.46
Z4 TUL		6404710.422	1911195.706	C2-32	2900+99.93	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.35	205.71	11.37
Z4 TUL	L C2	6404892.357	1910519.766	C2-33	2907+99.93	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.16	205.74	11.58
Z4 TUL		6405094.952	1909745.209	C2-34	2916+00.54	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.21	205.76	11.55
Z4 TUL		6405298.643	1908972.464	C2-35	2923+99.68	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.85	205.79	10.94
Z4 TUL		6405476.257	1908295.118	C2-36	2930+99.93	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.48	205.81	11.33
Z4 TUL		6405732.997	1907340.361	C2-37	2940+88.61	10'x8' DBL RCBC	UNKNOWN CANAL	107.00	60	25	188	191.1	205.84	14.74
Z4 TUL		6405957.635	1906559.958	C2-38	2949+00.71	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	193.74	205.87	12.13
Z4 TUL		6406202.679	1905769.206	C2-39	2957+28.57	36" RCP	UNNAMED DITCH	90.00	60	N/A	145	193.92	205.9	11.98
Z4 TUL		6406541.486	1904752.869	C2-40	2967+99.92	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	50	0	100.00	194.3	206.59	12.29
Z4 TUL		6408999.261	1899032.206	C2-41	3030+31.12	2-120' SPAN. ON VIADUCT	TULE RIVER	97.00	40	N/A	N/A	182.72	235.19	52.47
Z4 TUL		6409549.041	1898023.265	C2-42	3041+80.05	10'x5' RCBC	UNKNOWN CANAL	90.00	40	N/A	120	194.91	228.42	33.51
Z4 TUL		6410507.862	1896360.073	C2-43	3060+99.88	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	50	0	119.00	193.02	216.91	23.89
Z4 TUL	L C2	6411604.268	1894220.773	*	3085+00.00	10'x5' RCBC	UNKNOWN CANAL	N/A	N/A	N/A	70.00	N/A	N/A	N/A
Z4 TUL		6411974.439	1893858.267	C2-44	3089+99.86	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	156	0	224	196.24	206.19	9.95

						DESIGNED BY T, RAMIL DRAWN BY
						CHECKED BY
REV	DATE	Вү	СНК	APP	DESCRIPTION	IN CHARGE O. EARLE DATE 04/24/14

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3
UTILITIES
COMPOSITE UTILITY PLAN
HH&D FACILITY SCHEDULE (SHEET 3 OF 5)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
UT-Y4502
SCALE
AS SHOWN

SHEET NO. 314 OF 316

						DESIGNED BY T. RAMIL
						DRAWN BY V. ORTEGA
						CHECKED BY
						IN CHARGE Q. EARLE
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 04/24/14

EASTING

6412611.903

6413411.034

6412387.698

6412938.446

6414109.008

6414806.983

6415504.958

6414941.228

6416189.204

6416903.436

6417571.064

6418238.692

6418897.17

6418853.505

6419967.236

6420747.578

6421521.475

6422317.769

6423104.581

6423811.2

6424140.95

6424563.53

6425364.023

6425587.357

6425994.251

6426802.852

6427611.253

6428422.687

6429081.041

6430120.545

NORTHING

1892771.391

1891408.383

1891419.962

1891450.983

1890217.908

1889027.433

1887836.958

1886199.165

1886670.639

1885451.694

1884312.978

1883174.263

1882051.303

1881317.297

1880226.557

1878894.653

1877574.298

1876219.753

1874880.953

1873671.86

1873117.053

1872398.298

1871036.169

1870655.966

1869965.892

1868587.34

1867202.073

1865826.291

1864704.285

1862943.316

POINT ID

P-01

P-02

P-03

P-04

P-05

P-06

P-07

P-08

P-09

P-10

P-11

P-12

P-13

P-14

P-15

P-16

P-17

P-18

P-19

P-20

P-21

P-22

P-23

P-24

P-25

P-26

P-27

P-28

P-29

P-30

STA#

3102+60

3118+40

3113+12, 877' Rt

3115+66, 387' Rt

3132+20

3146+00

3159+80

3171+08, 1315' Rt

3173+25

3186+45

3199+65

3213+88

3226+88

3232+98, 409' Rt

3248+00

3263+46

3278+77

3294+49

3310+00

3324+01

3330+46

3338+81

3354+61

3359+00

3367+00

3383+00

3399+00

3415+00

3428+00

3448+50

COUNTY

TUL

ALIGN

Р

Ρ

Р

Р

Ρ

Р

Р

Ρ

Ρ

Р

Р

Р

Р

P

Р

Ρ

Ρ

ZONE

Z4

Z4

Z4

Ζ4

Z4

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION

PROPOSED FACILITY

(INTERNAL WIDTH

INTERNAL HEIGHT)

10'x3' RCBC

12'x5' RCBC

12'x5' RCBC

12'x5' RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

11'x8' DBL RCBC

11'x8' DBL RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

16'x12' DBL RCBC

16'x12' DBL RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

15'x28' 7x RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

5'x3' RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

10'x3' RCBC

5'x3' RCBC

10'x3' RCBC





CROSSING

ANGLE

(CLOCKWISE

FROM NORTH)

90.00

122

N/A

N/A

90.00

90.00

90.00

N/A

76

90.00

90.00

90.00

N/A

N/A

90.00

90

90.00

90.00

90.00

90

90

90.00

90.00

90.00

90.00

90

90

90.00

90.00

90.00

PURPOSED/ EXISTING FEATURE CROSSED

WILDLIFE CROSSING STRUCTURE

RESHEARS DITCH

CULVERT UNDER AVE 128, BESHEARS DITCH

CULVERT UNDER SYSTEMS ROAD, BESHEARS DITCH

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

EXTEND CULVERT UNDER ROAD

TAYLOR CANAL

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

UNNAMED DITCH

CULVERT UNDER ROAD, UNNAMED DITCH

WILDLIFE CROSSING STRUCTURE

LAKELAND CANAL

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

PERIODIC HYDRAULIC RELIEF

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

WILDLIFE CROSSING STRUCTURE

PERIODIC HYDRAULIC RELIEF

WILDLIFE CROSSING STRUCTURE

ROW WIDTH

WEST OF CL

(FT)

143

N/A

N/A

N/A

68

144

145

N/A

68

67

67

67

67

N/A

67

72

68

68

68

68

68

68

68

68

68

118

118

118

68

112

ADDITIONAL

DIST. EACH

SIDE (FT)

0

N/A

N/A

N/A

0

0

0

N/A

N/A

0

0

Ω

N/A

N/A

0

0

0

0

Ω

25

0

0

n

0

Λ

0

0

0

0

Ω

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3 UTILITIES COMPOSITE UTILITY PLAN HH&D FACILITY SCHEDULE (SHEET 4 OF 5)

TOTAL LENGTH

OF CHANNEL

SPANNED BY

CULVERT (FT)

212

251

386

57

136

213

213

162

171

136

136

136

178

421

136

140

136

136

136

186

142

136

136

136

138

186

186

186

136

178

EXISTING

ELEVATION

(OF INV)

193.88

188.93

N/A

N/A

191.21

190.9

190.94

N/A

187.87

191.25

190.62

189.66

186.75

N/A

186.5

186.45

187.04

187.39

186.97

190.99

186.15

186.78

188.96

189.225

189.49

188.24

184.82

189.79

191.495

193.2

PROPOSED

ELEVATION

(OF TRACK)

205.79

205.28

N/A

N/A

204.83

204.39

203.94

N/A

203.48

203.05

202.62

202.06

201.41

N/A

200.35

199.58

198.81

198.03

199.46

203.42

203.34

202.04

200.4

200.315

200.23

200.06

201.92

204.69

205.345

206

DISTANCE TO

TOP OF RAIL

(FT)

11.90

16 34

N/A

N/A

13.62

13.49

13.01

N/A

15.61

11.80

12.00

12.40

N/A

N/A

13.84

13.12

11.77

10.63

12 48

12.43

17.20

15.26

11.44

11

10.74

11.82

17.10

14.90

13

12.80

Γ	CONTRACT NO. HSR 06-0003
	DRAWING NO. UT-Y4503
	SCALE AS SHOWN

315 OF 316

3
0
⊆
Ф
0
ਰ
⋖
- 1
57
47
က
_
•:
0
Z
ο.
#
R
ш.

ZONE	COUNTY	HST ALIGN	EASTING	NORTHING	POINT ID	STA#	PROPOSED FACILITY (INTERNAL WIDTH x INTERNAL HEIGHT)	PURPOSED/ EXISTING FEATURE CROSSED	CROSSING ANGLE (CLOCKWISE FROM NORTH)	ROW WIDTH WEST OF CL (FT)	ADDITIONAL DIST. EACH SIDE (FT)	TOTAL LENGTH OF CHANNEL SPANNED BY CULVERT (FT)	EXISTING ELEVATION (OF INV)	PROPOSED ELEVATION (OF TRACK)	DISTANCE TO TOP OF RAIL (FT)
Z4	TUL	A1	6430919.874	1861581.357	A1-01	3924+53	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	117	0	185	193.44	206	12.56
Z4	TUL	A1	6431705.032	1860246.911	A1-02	3940+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	112	0	185	193.76	206	12.24
Z4	TUL	A1	6432469.044	1858944.196	A1-03	3955+10	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	112	0	185	193.87	206	12.13
Z4	TUL	A1	6433246.448	1857568.75	A1-04	3970+90	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	104	0	168	193.57	206	12.43
Z4	TUL	A1	6433980.747	1856169.821	A1-05	3986+71	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	94	0	144	193.76	209.18	15.42
Z4	TUL	A1	6434670.924	1854748.606	A1-06	4002+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	94	0	144	195.53	220.48	24.95
Z4	TUL	A1	6434845.148	1854371.036	A1-07	4006+66	2-120' SPAN, ON VIADUCT	DEER CREEK	120	40	N/A	N/A	192.69	223.64	30.95
Z4	TUL	A1	6437137.215	1848362.817	A1-08	4071+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	50	0	100	195.29	220.47	25.18
Z4	TUL	A1	6437324.114	1847747.147	A1-09	4077+44	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	50	0	100	194.37	213.89	19.52
Z4	TUL	A1	6437546.926	1846972.767	A1-10	4085+50	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	50	0	100	194.54	207.82	13.28
Z4	TUL	A1	6437739.245	1846263.56	A1-11	4092+85	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	105	60	0	120	194.64	205.16	10.51
Z4	TUL	A1	6437867.523	1845764.189	A1-12	4098+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.68	204.55	9.86
Z4	TUL	A1	6438020.848	1845141.601	A1-13	4104+41	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90	60	0	120	194.72	204.62	9.90
Z4	TUL	A1	6438147.52	1844597.591	A1-14	4110+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	194.62	204.69	10.07
Z4	TUL	A1	6438264.031	1844075.475	A1-15	4115+34	15'x11' DBL RCBC	UNNAMED DITCH	90.00	60	25	170	194.92	204.76	9.85
Z4	TUL	A1	6438370.894	1843567.931	A1-16	4120+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.51	204.95	10.44
Z4	TUL	A1	6438546.828	1842704.113	A1-17	412900	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	153	194.39	204.93	10.53
Z4	TUL	A1	6438686.375	1841917.957	A1-18	413700	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	153	194.4	205.03	10.63
Z4	TUL	A1	6438811.333	1841121.477	A1-19	4146+10	10'x3' WCS	UNNAMED DITCH	90	60	25	203	193.57	205.22	11.65
Z4	TUL	A1	6438905.342	1840467.599	A1-20	4152+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	153	195.12	205.55	10.43
Z4	TUL	A1	6439000.888	1839774.629	A1-21	4159+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	194.96	205.45	10.50
Z4	TUL	A1	6439073.281	1839178.889	A1-22	4165+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	195.21	206.29	11.09
Z4	TUL	A1	6439144.744	1838517.267	A1-23	4171+77	14'x7' RCBC	UNNAMED DITCH	95	60	25	170	193.71	206.68	12.96
Z4	TUL	A1	6439215.246	1837784.849	A1-24	4179+00	5'x3' RCBC	PERIODIC HYDRAULIC RELIEF	90.00	60	0	120	195.8	207.09	11.29
Z4	TUL	A1	6439263.914	1837188.226	A1-25	4185+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	195.77	207.44	11.67
Z4	TUL	A1	6439365.137	1835927.192	A1-26	4197+80	12'x6' RCBC	WHITE RIVER CANAL	90	60	25	170	199.13	208.15	9.03
Z4	TUL	A1	6439493.888	1834324.942	A1-27	4213+73	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	196.4	208.39	11.99
Z4	TUL	A1	6439579.774	1833240.954	A1-28	4224+60	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	197.73	207.8	10.07
Z4	TUL	A1	6439703.477	1831706.029	A1-29	4240+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	196.98	207.12	10.14
Z4	TUL	A1	6439749.549	1831130.851	A1-30	4245+76	12'x11' TRPL RCBC	UNNAMED DITCH	90.00	60	25	170	197.91	206.84	8.93
Z4	TUL	A1	6439806.492	1830409.622	A1-31	4258+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	199.95	206.97	7.03
Z4	TUL	A1	6439930.533	1828869.87	A1-32	4268+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	198.55	207.59	9.04
Z4	TUL	A1	6440054.156	1827319.988	A1-33	4284+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90	60	0	160	197.7	208.21	10.50
Z4	TUL	A1	6440215.574	1825316.633	A1-34	4304+10	13'x6' RCBC	UNNAMED DITCH	94	60	25	211	194.8	209.01	14.21
Z4	TUL	A1	6440341.702	1823731.396	A1-35	4320+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	160	198.09	209.64	11.56
Z4	TUL	A1	6440465.47	1822186.345	A1-36	4335+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	160	201.25	211.25	9.99
Z4	TUL	A1	6440589.238	1820641.294	A1-37	4351+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	160	205.68	214.9	9.22
Z4	TUL	A1	6440713.094	1819095.146	A1-38	4366+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	160	207.82	217.71	9.88
Z4	TUL	A1	6440836.774	1817551.193	A1-39	4381+00	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	160	207.77	219.23	11.46
Z4	TUL	A1	6440960.361	1816009.764	A1-40	4397+50	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	208.68	220.76	12.08
Z4	TUL	A1	6441086.525	1814434.809	A1-41	4413+30	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	210.94	222.31	11.37
Z4	TUL	A1	6441212.689	1812859.854	A1-42	4429+10	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	212.96	223.82	10.87
Z4	TUL	A1	6441338.852	1811284.899	A1-43	4444+90	10'x3' RCBC	WILDLIFE CROSSING STRUCTURE	90.00	60	0	120	214.59	224.85	10.27

						DESIGNED BY T. RAMIL	
						DRAWN BY V. ORTEGA	l
						CHECKED BY	ı
						T. GRAU IN CHARGE	ı
						Q. EARLE	ı
REV	DATE	BY	СНК	APP	DESCRIPTION	04/24/14	

PROPOSED
PRELIMINARY
DESIGN
NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 2-3
UTILITIES
COMPOSITE UTILITY PLAN
HH&D FACILITY SCHEDULE (SHEET 5 OF 5)

-	CONTRACT NO.
	HSR 06-0003
	DRAWING NO.
	UT-Y4504
	SCALE
	AS SHOWN

SHEET NO. 316 OF 316